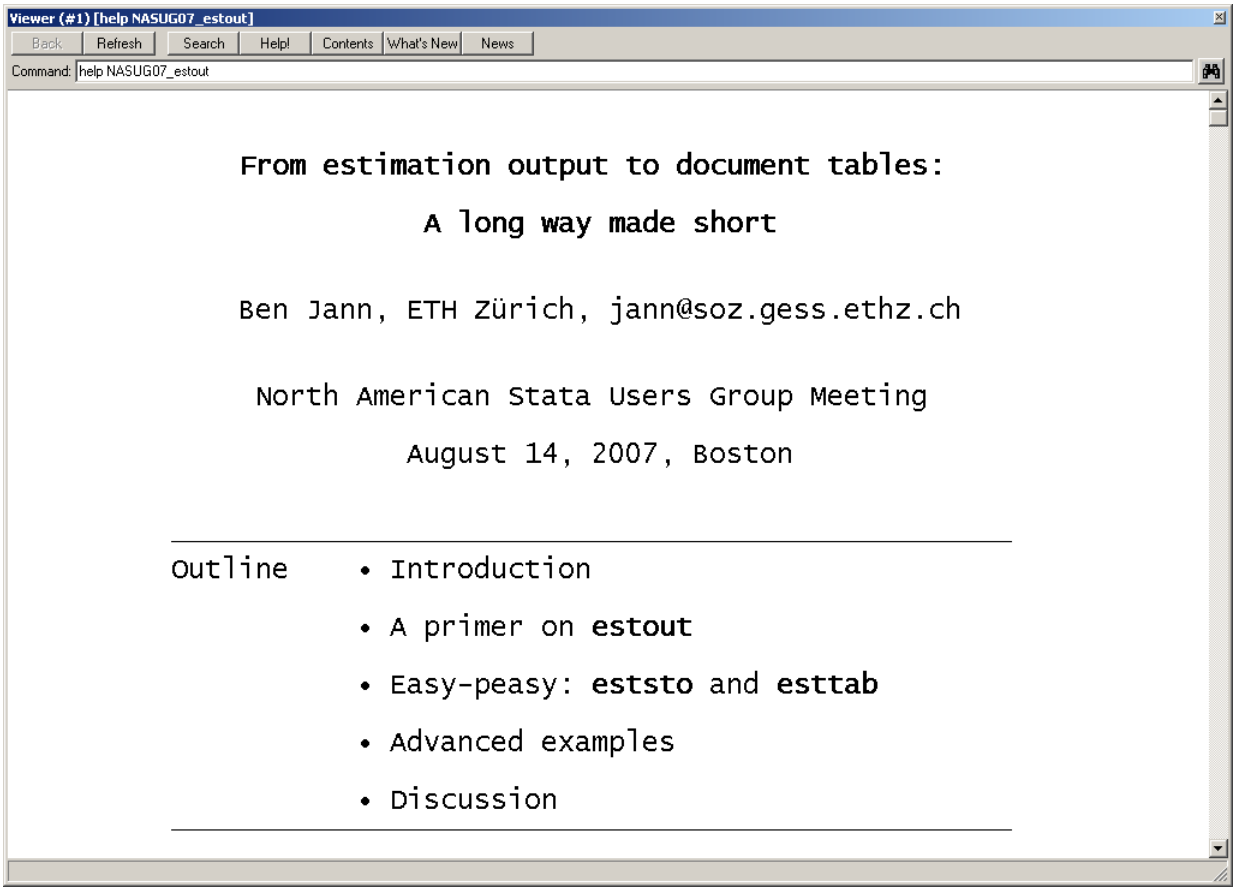


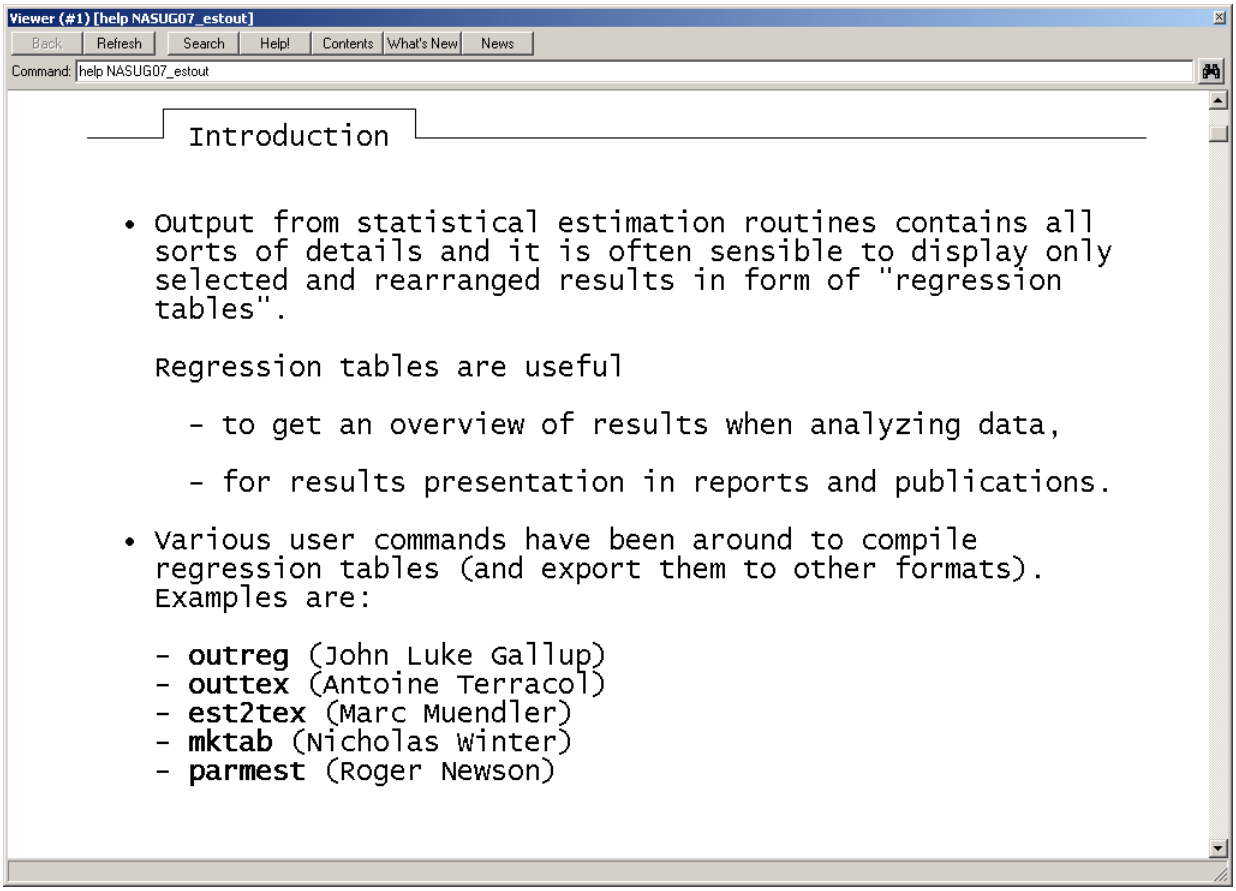

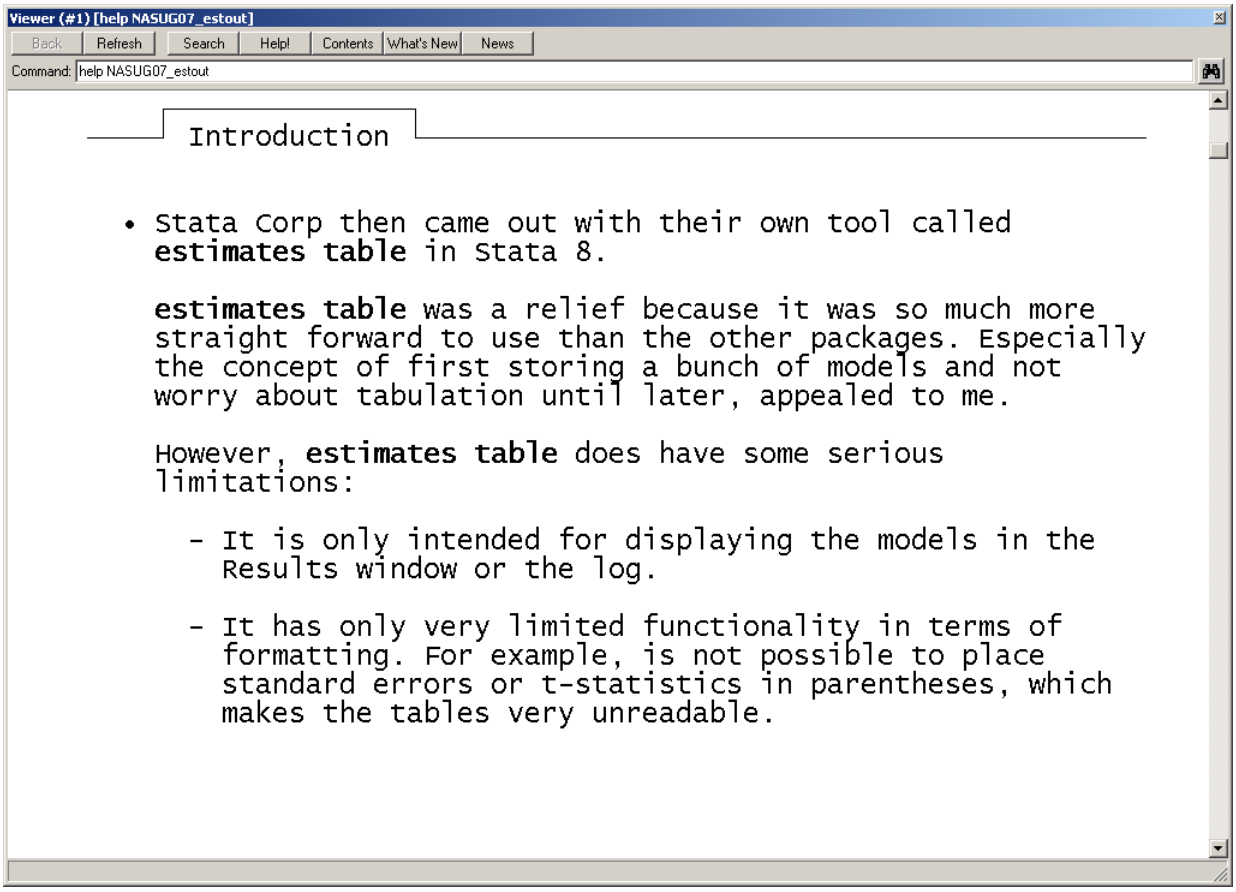
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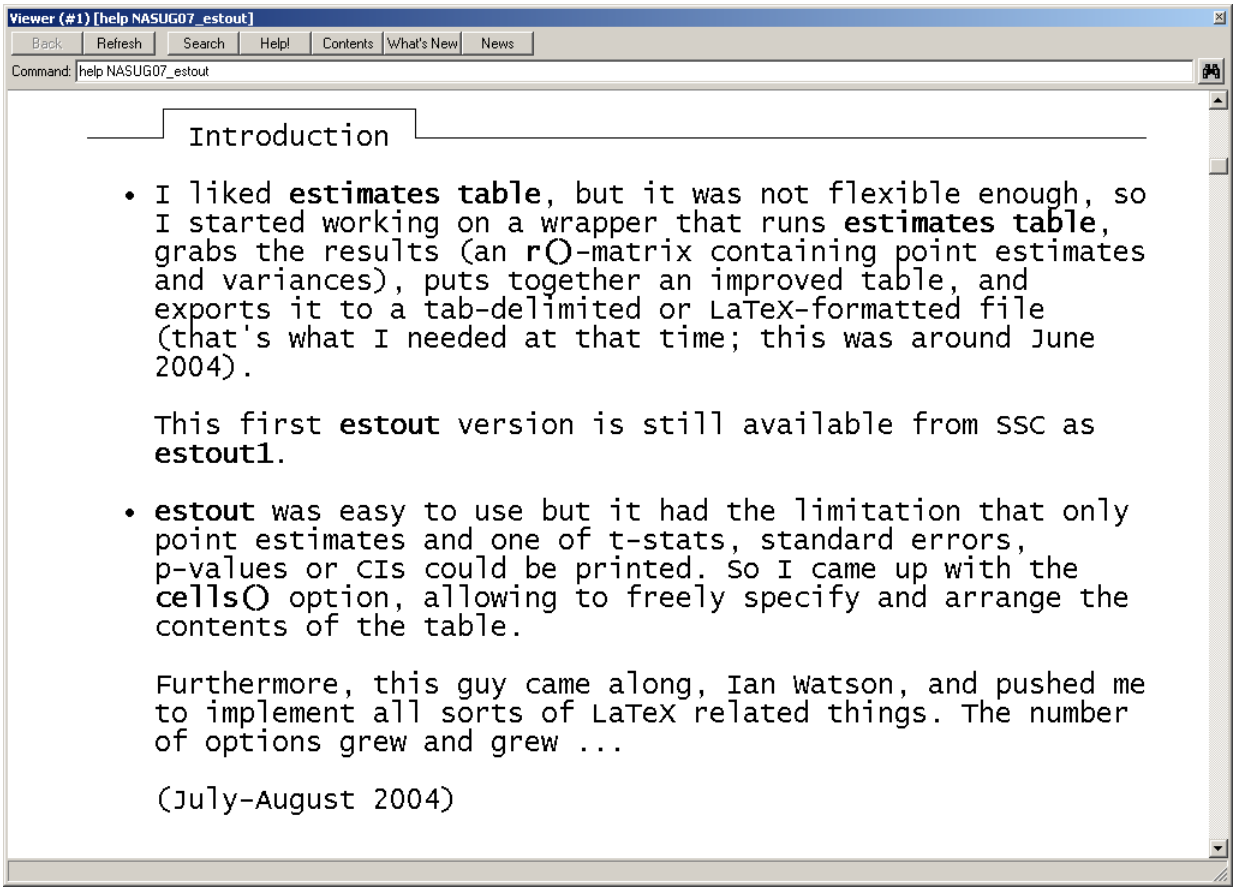
• Stata Corp then came out with their own tool called estimates table in Stata 8.
estimates table was a relief because it was so much more straight forward to use than the other packages. Especially the concept of first storing a bunch of models and not worry about tabulation until later, appealed to me.
However, estimates table does have some serious limitations:
- It is only intended for displaying the models in the Results window or the log.
- It has only very limited functionality in terms of formatting. For example, is not possible to place standard errors or t-statistics in parentheses, which makes the tables very unreadable.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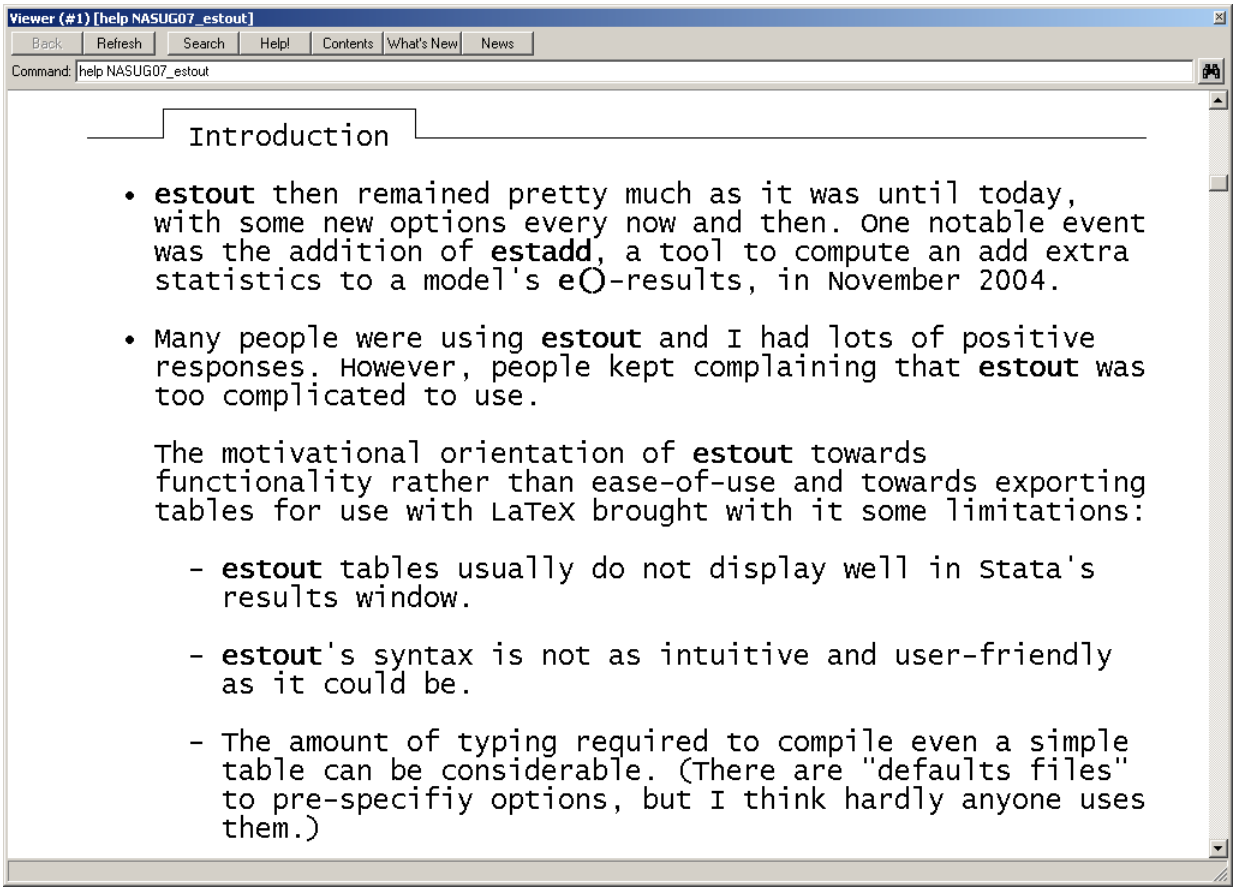
• I liked estimates table, but it was not flexible enough, so I started working on a wrapper that runs estimates table, grabs the results (an r()-matrix containing point estimates and variances), puts together an improved table, and exports it to a tab-delimited or LaTeX-formatted file (that's what I needed at that time; this was around June 2004).
This first estout version is still available from SSC as estout1.
• estout was easy to use but it had the limitation that only point estimates and one of t-stats, standard errors, p-values or CIs could be printed. So I came up with the cells() option, allowing to freely specify and arrange the contents of the table.
Furthermore, this guy came along, Ian Watson, and pushed me to implement all sorts of LaTeX related things. The number of options grew and grew ...
(July-August 2004)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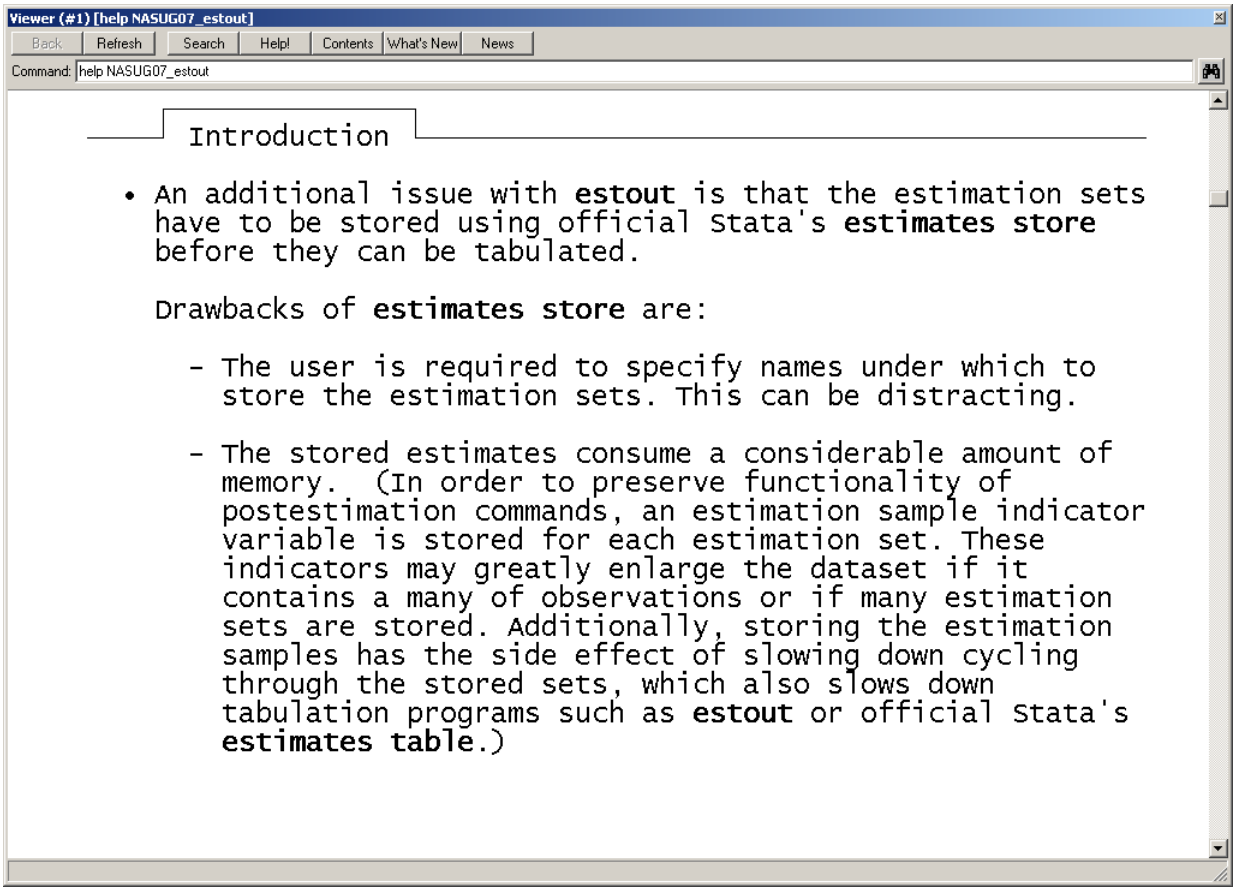
• estout then remained pretty much as it was until today, with some new options every now and then. One notable event was the addition of estadd, a tool to compute an add extra statistics to a model's e()-results, in November 2004.
• Many people were using estout and I had lots of positive responses. However, people kept complaining that estout was too complicated to use.
The motivational orientation of estout towards functionality rather than ease-of-use and towards exporting tables for use with LaTeX brought with it some limitations:
- estout tables usually do not display well in Stata's results window.
- estout's syntax is not as intuitive and user-friendly as it could be.
- The amount of typing required to compile even a simple table can be considerable. (There are "defaults files" to pre-specifiy options, but I think hardly anyone uses them.)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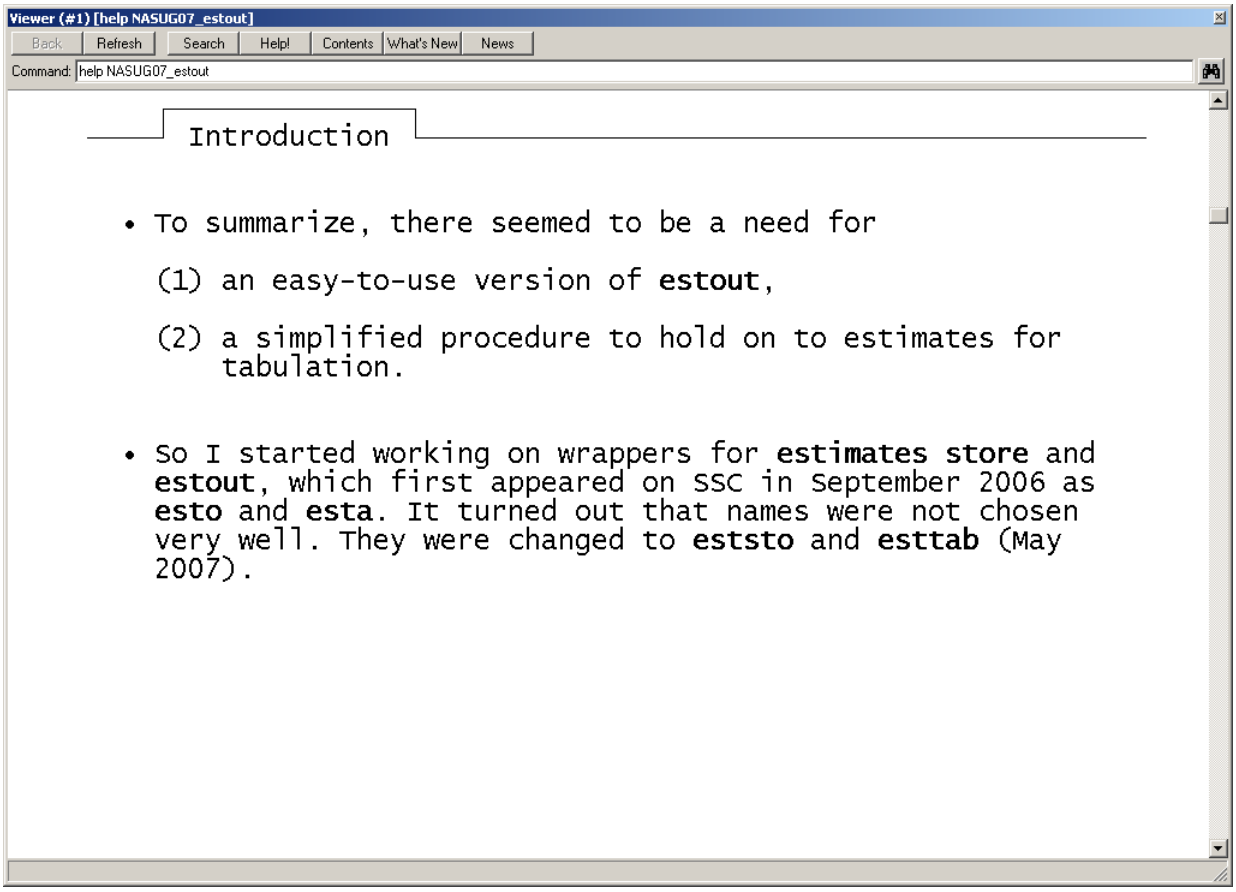
• An additional issue with estout is that the estimation sets have to be stored using official Stata's estimates store before they can be tabulated.
Drawbacks of estimates store are:
- The user is required to specify names under which to store the estimation sets. This can be distracting.
- The stored estimates consume a considerable amount of memory. (In order to preserve functionality of postestimation commands, an estimation sample indicator variable is stored for each estimation set. These indicators may greatly enlarge the dataset if it contains a many of observations or if many estimation sets are stored. Additionally, storing the estimation samples has the side effect of slowing down cycling through the stored sets, which also slows down tabulation programs such as estout or official Stata's estimates table.)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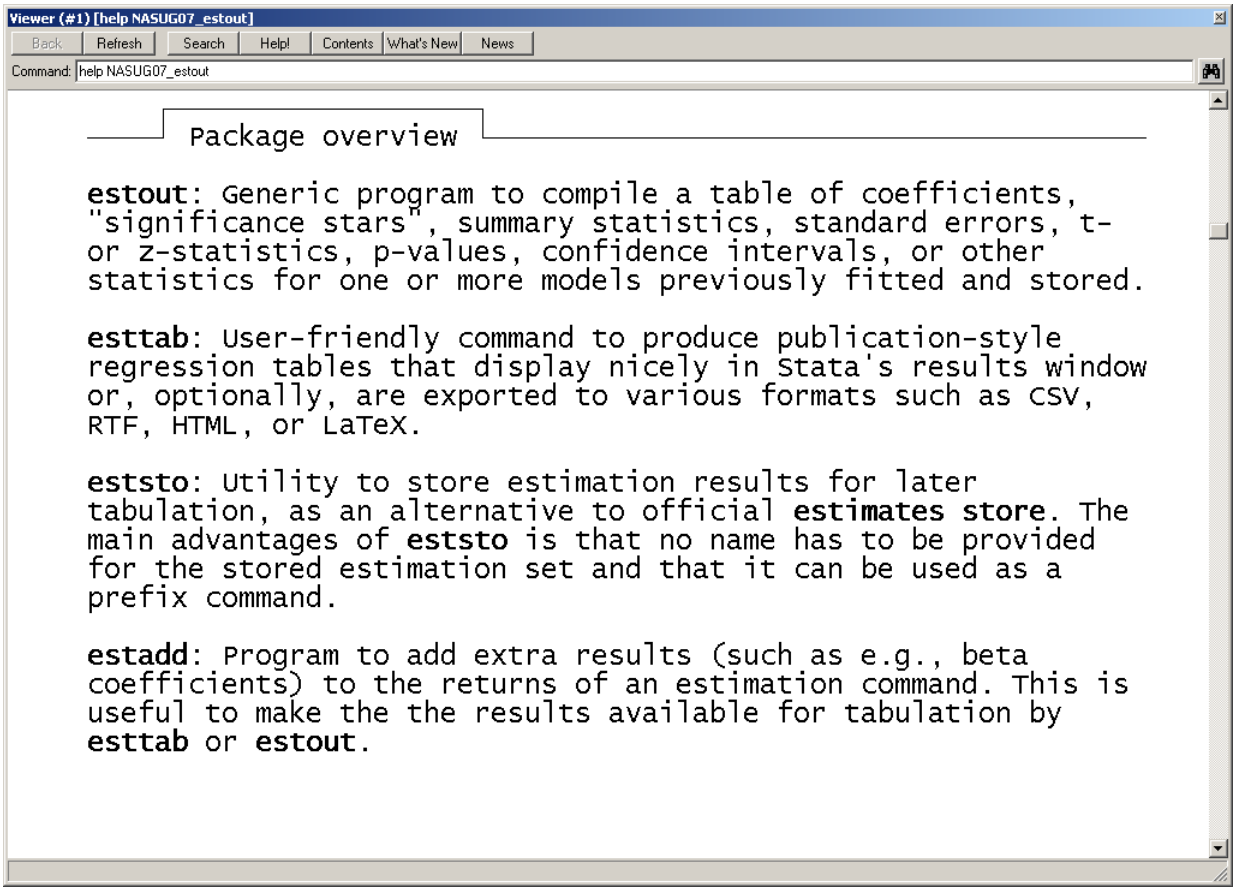
• To summarize, there seemed to be a need for
(1) an easy-to-use version of estout,
(2) a simplified procedure to hold on to estimates for tabulation.
• So I started working on wrappers for estimates store and estout, which first appeared on SSC in September 2006 as esto and esta. It turned out that names were not chosen very well. They were changed to eststo and esttab (May 2007).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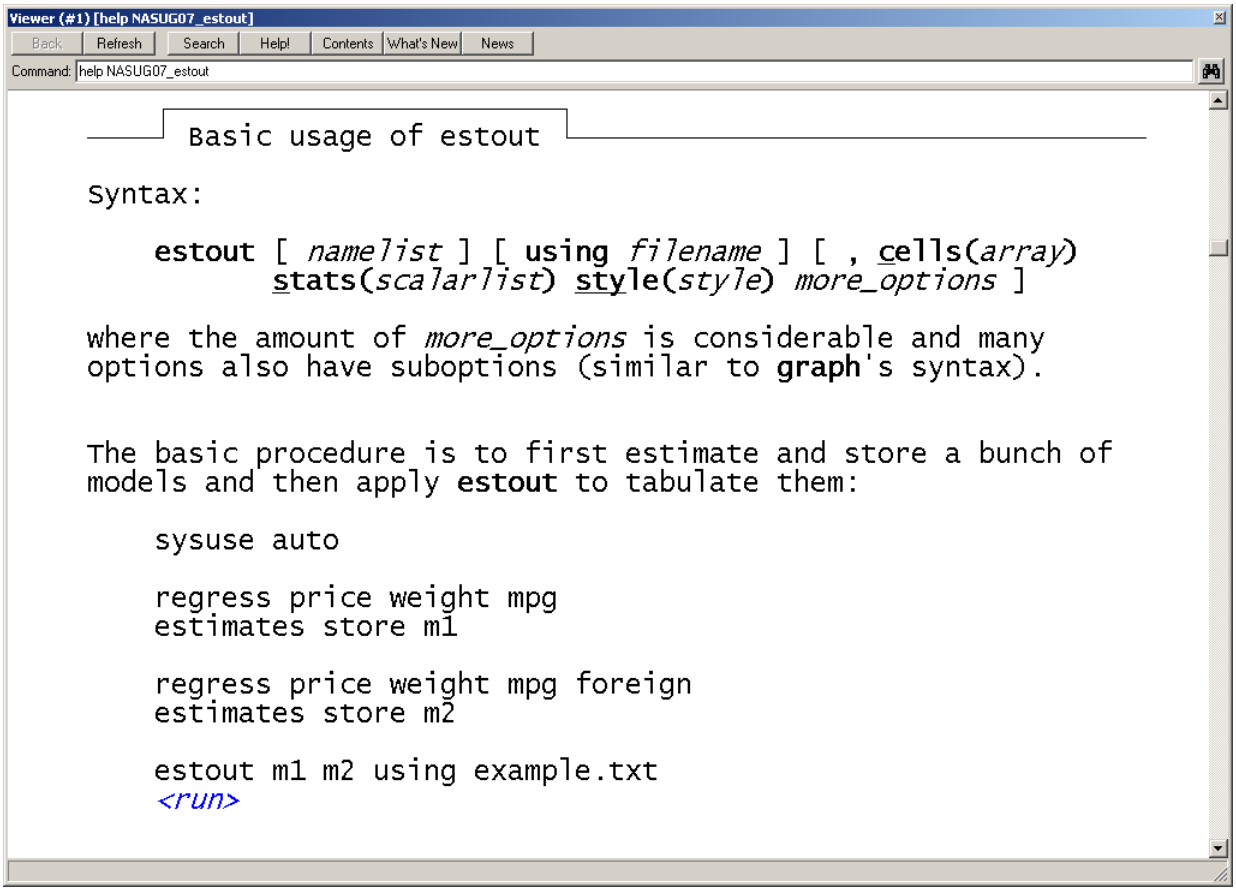
Package overview
estout: Generic program to compile a table of coefficients, "significance stars", summary statistics, standard errors, t- or z-statistics, p-values, confidence intervals, or other statistics for one or more models previously fitted and stored.
esttab: User-friendly command to produce publication-style regression tables that display nicely in Stata's results window or, optionally, are exported to various formats such as CSV, RTF, HTML, or LaTeX.
eststo: Utility to store estimation results for later tabulation, as an alternative to official estimates store. The main advantages of eststo is that no name has to be provided for the stored estimation set and that it can be used as a prefix command.
estadd: Program to add extra results (such as e.g., beta coefficients) to the returns of an estimation command. This is useful to make the the results available for tabulation by esttab or estout.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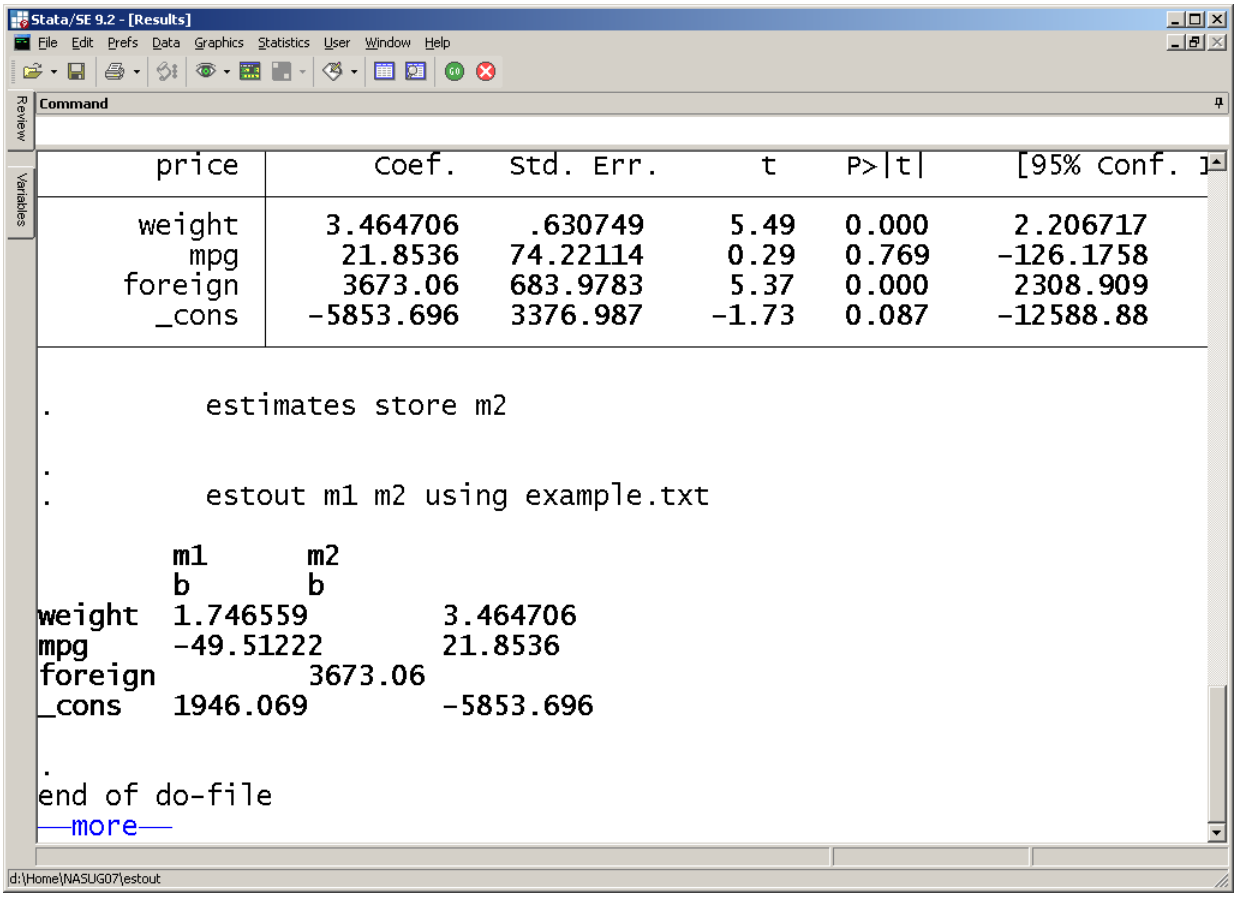
Basic usage of estout
Syntax:
estout [ namelist ] [ using filename ] [ , cells(array)
stats(scalarlist) style(style) more_options ]
where the amount of more_options is considerable and many
options also have suboptions (similar to graph's syntax).
The basic procedure is to first estimate and store a bunch of
models and then apply estout to tabulate them:
sysuse auto
regress price weight mpg
estimates store m1
regress price weight mpg foreign
estimates store m2
estout m1 m2 using example.txt
<run>


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
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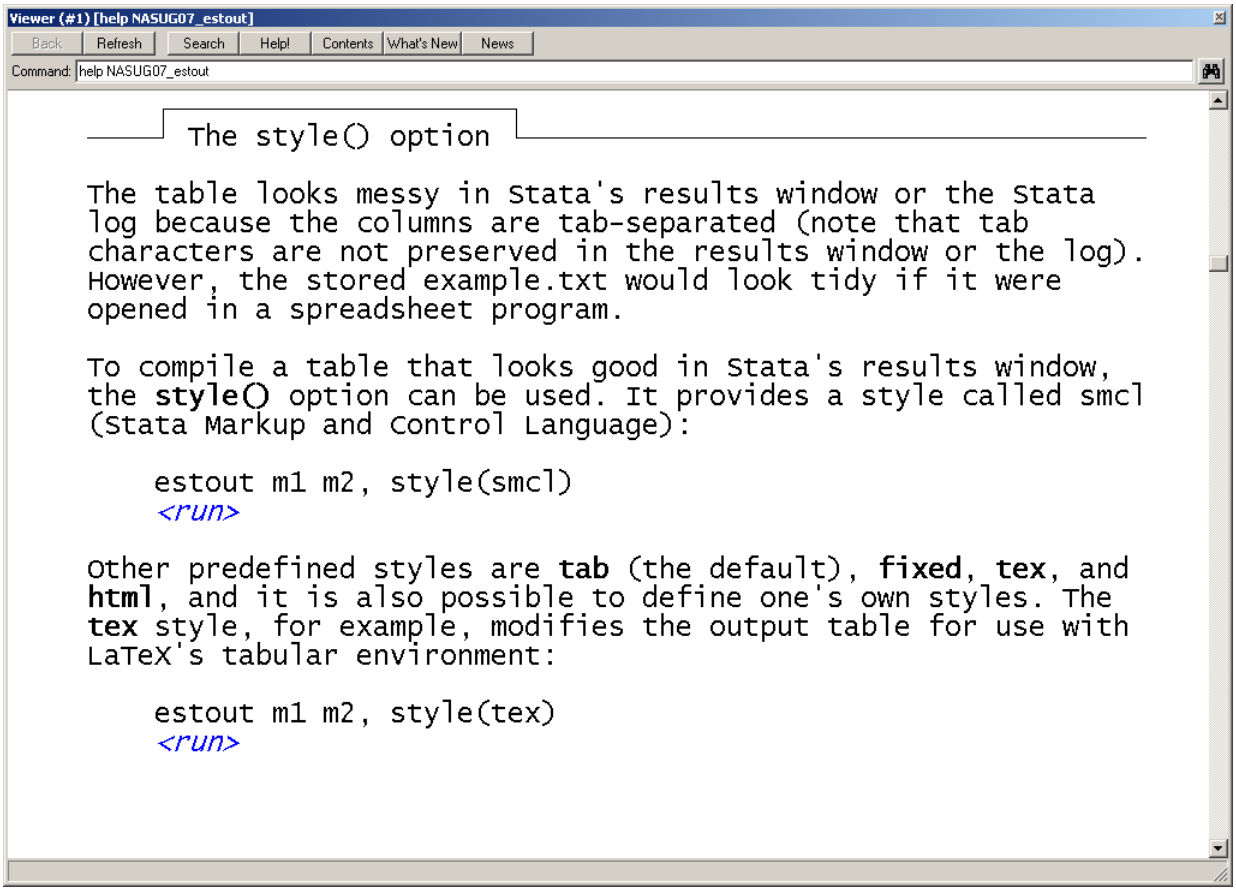
Command
price | Coef. Std. Err. t P>|t| [95% Conf. I
weight | 3.464706 .630749 5.49 0.000 2.206717
mpg | 21.8536 74.22114 0.29 0.769 -126.1758
foreign | 3673.06 683.9783 5.37 0.000 2308.909
_cons | -5853.696 3376.987 -1.73 0.087 -12588.88
. estimates store m2
. estout m1 m2 using example.txt
m1 m2
b b
weight 1.746559 3.464706
mpg -49.51222 21.8536
foreign 3673.06
_cons 1946.069 -5853.696
end of do-file
more
d:\Home\NASUG07\estout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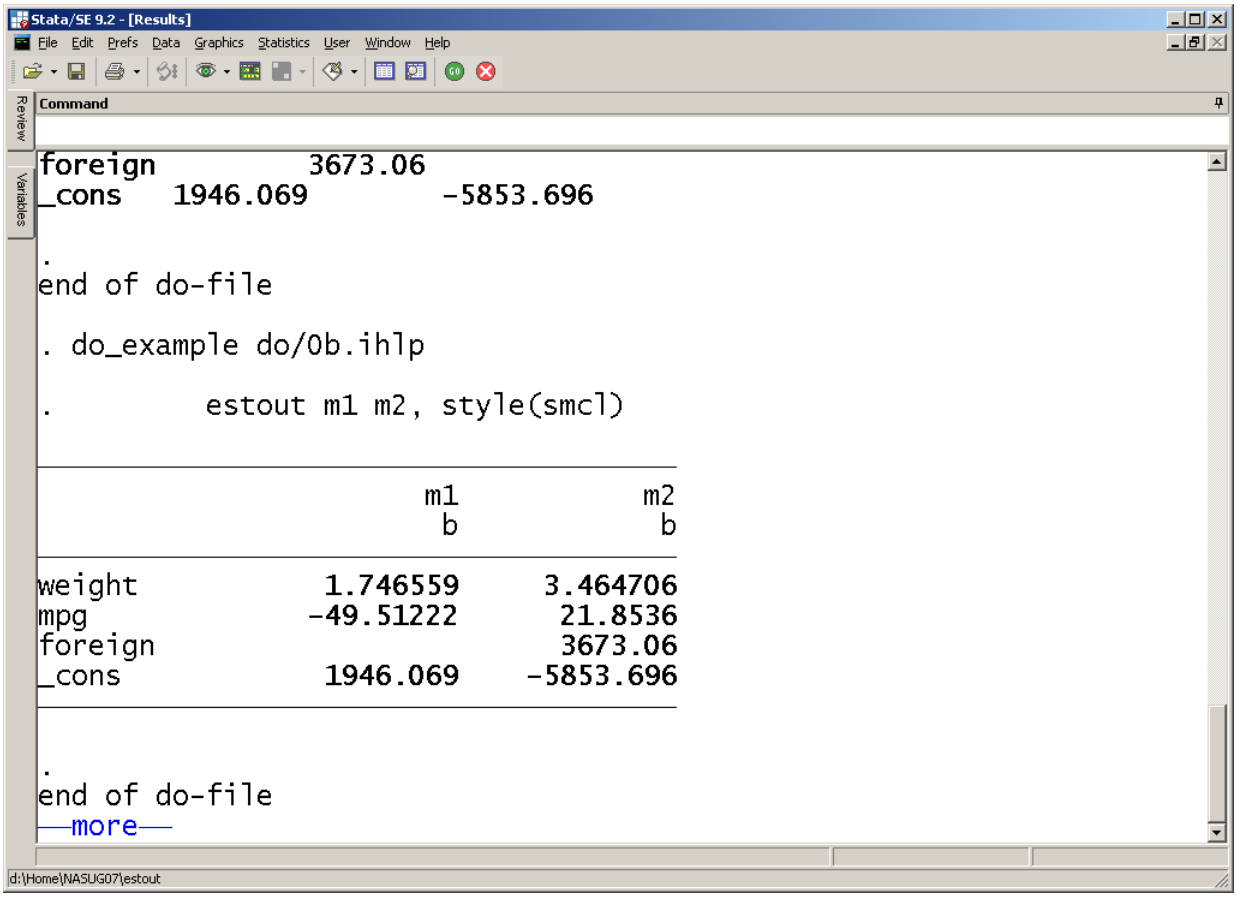
The style() option
The table looks messy in Stata's results window or the Stata log because the columns are tab-separated (note that tab characters are not preserved in the results window or the log). However, the stored example.txt would look tidy if it were opened in a spreadsheet program.
To compile a table that looks good in Stata's results window, the style() option can be used. It provides a style called smcl (Stata Markup and Control Language):
estout m1 m2, style(smcl)
<run>
Other predefined styles are tab (the default), fixed, tex, and html, and it is also possible to define one's own styles. The tex style, for example, modifies the output table for use with LaTeX's tabular environment:
estout m1 m2, style(tex)
<run>


Stata/SE 9.2 - [Results]
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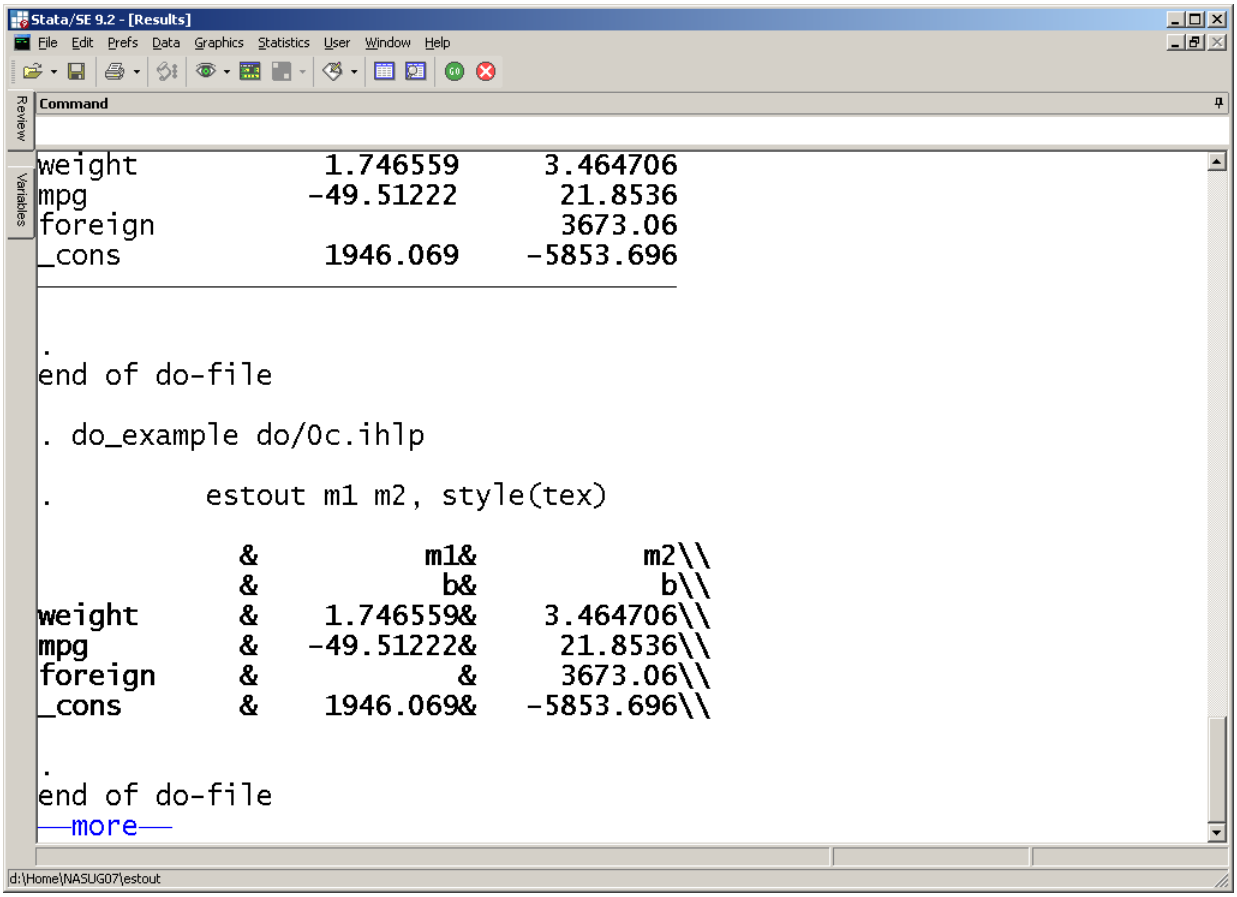
foreign 3673.06
_cons 1946.069 -5853.696
.
end of do-file
. do_example do/0b.ihlp
. estout m1 m2, style(smcl)
m1 m2
b b
weight 1.746559 3.464706
mpg -49.51222 21.8536
foreign 3673.06
_cons 1946.069 -5853.696
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
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Command
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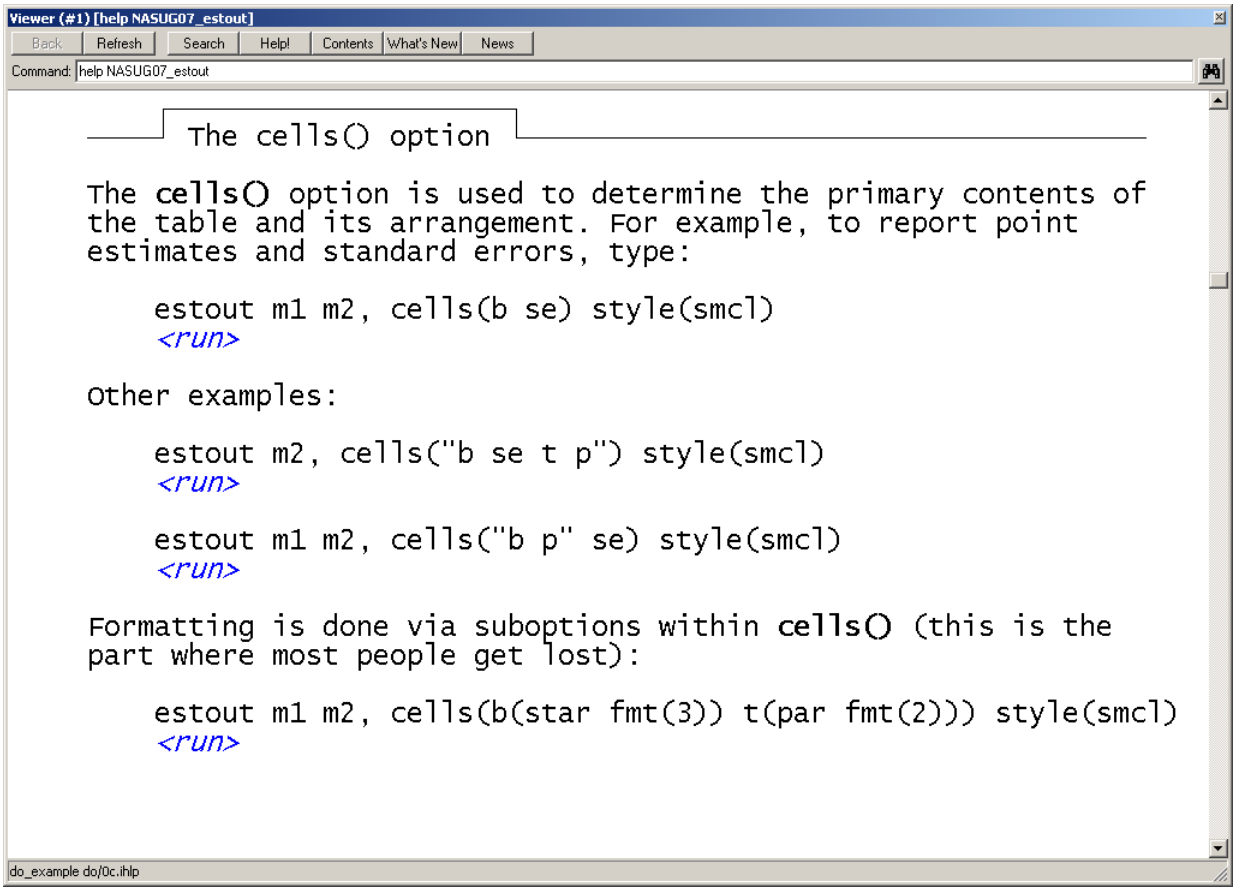
Variables
weight 1.746559 3.464706
mpg -49.51222 21.8536
foreign 3673.06
_cons 1946.069 -5853.696
.
end of do-file
. do_example do/0c.ihlp
. estout m1 m2, style(tex)
& m1& m2\\
& b& b\\
weight & 1.746559& 3.464706\\
mpg & -49.51222& 21.8536\\
foreign & & 3673.06\\
_cons & 1946.069& -5853.696\\
.
end of do-file
--more--
d:\Home\NASUG07\estout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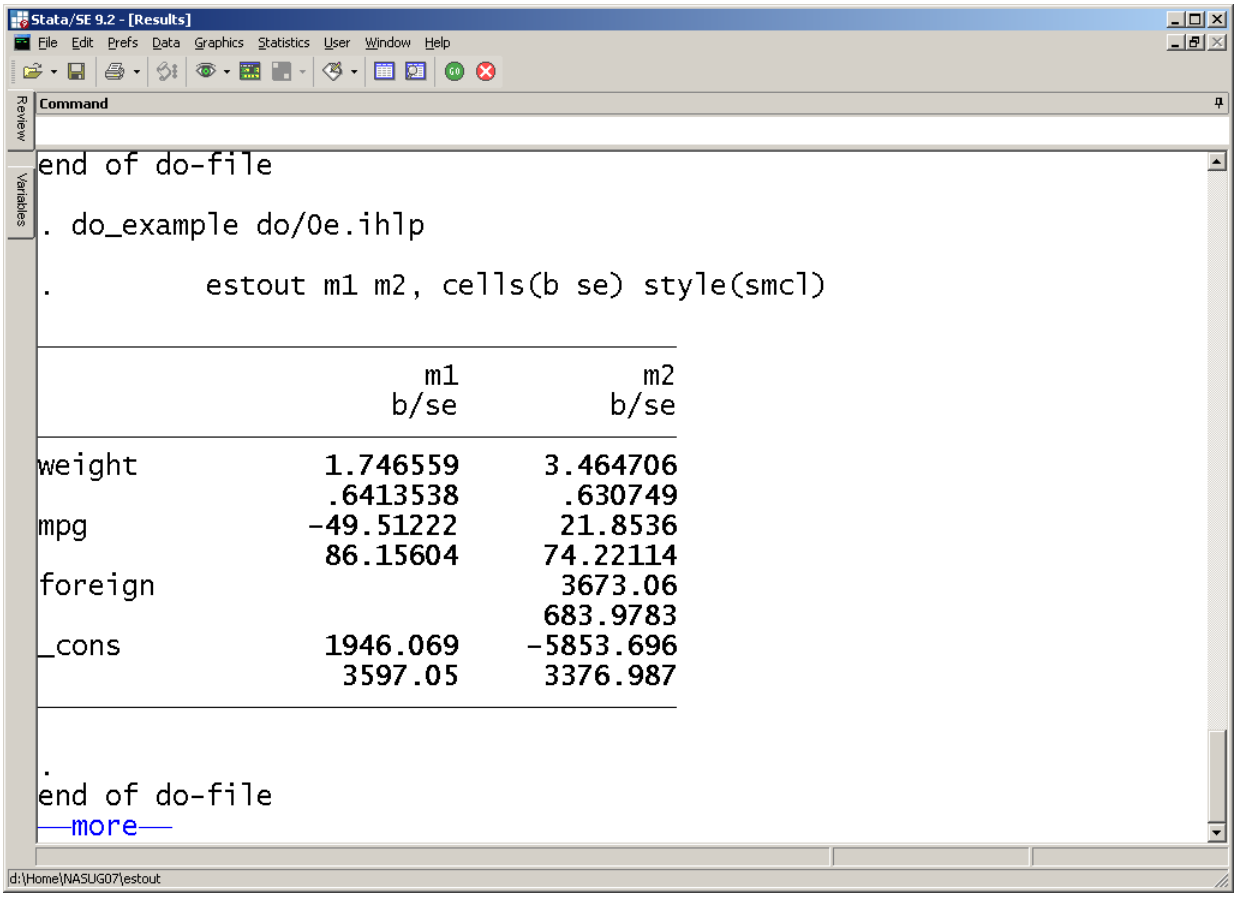
The cells() option
The cells() option is used to determine the primary contents of the table and its arrangement. For example, to report point estimates and standard errors, type:
estout m1 m2, cells(b se) style(smcl)
<run>
Other examples:
estout m2, cells("b se t p") style(smcl)
<run>
estout m1 m2, cells("b p" se) style(smcl)
<run>
Formatting is done via suboptions within cells() (this is the part where most people get lost):
estout m1 m2, cells(b(star fmt(3)) t(par fmt(2))) style(smcl)
<run>
do_example do/0c.ihlp


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
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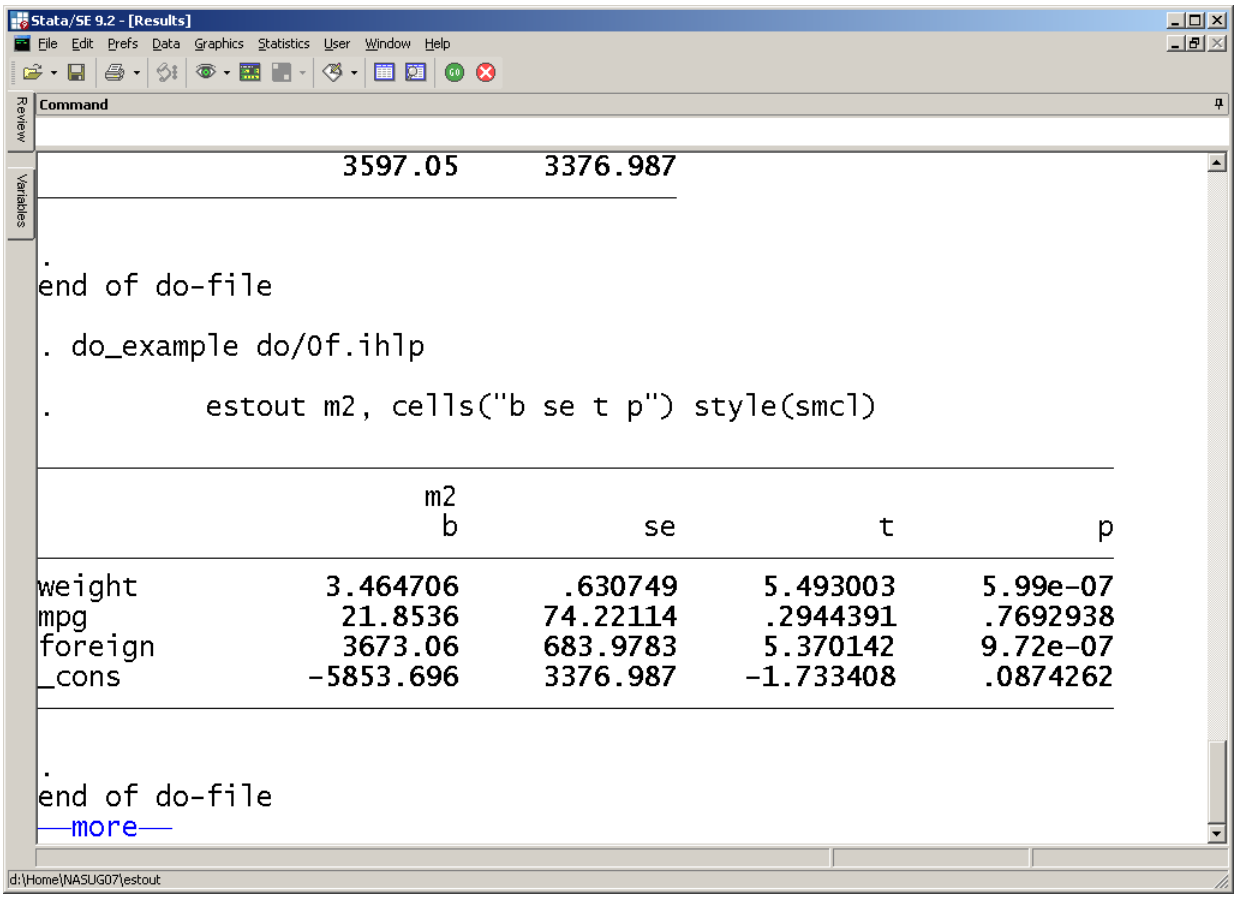
end of do-file
. do_example do/0e.ihlp
. estout m1 m2, cells(b se) style(smcl)
m1 b/se m2 b/se
weight 1.746559 3.464706
.6413538 .630749
mpg -49.51222 21.8536
86.15604 74.22114
foreign 3673.06
683.9783
_cons 1946.069 -5853.696
3597.05 3376.987
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
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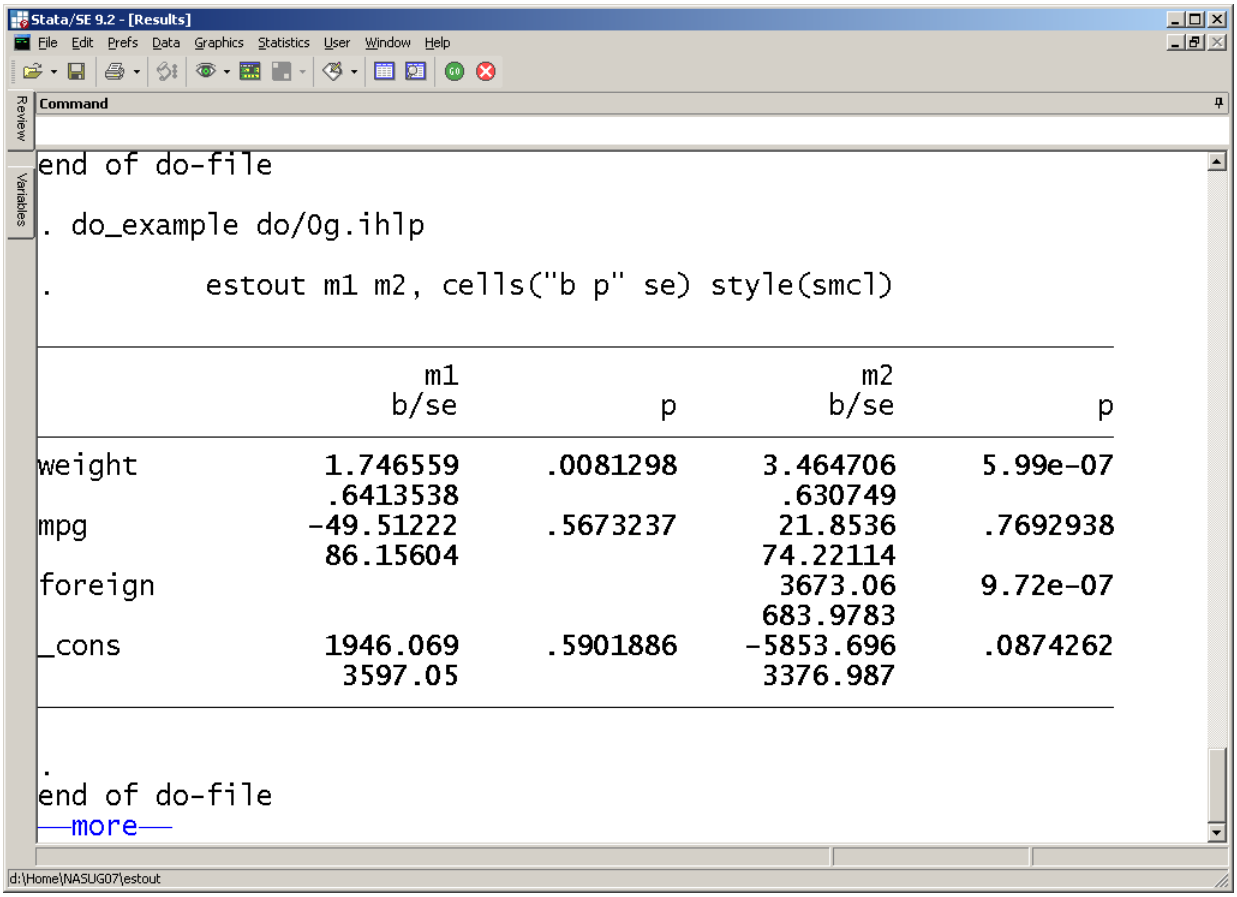
Command
Variables
3597.05 3376.987
.
end of do-file
. do_example do/0f.ihlp
. estout m2, cells("b se t p") style(smcl)
m2
b se t p
weight 3.464706 .630749 5.493003 5.99e-07
mpg 21.8536 74.22114 .2944391 .7692938
foreign 3673.06 683.9783 5.370142 9.72e-07
_cons -5853.696 3376.987 -1.733408 .0874262
.
end of do-file
--more--
d:\Home\NASUG07\estout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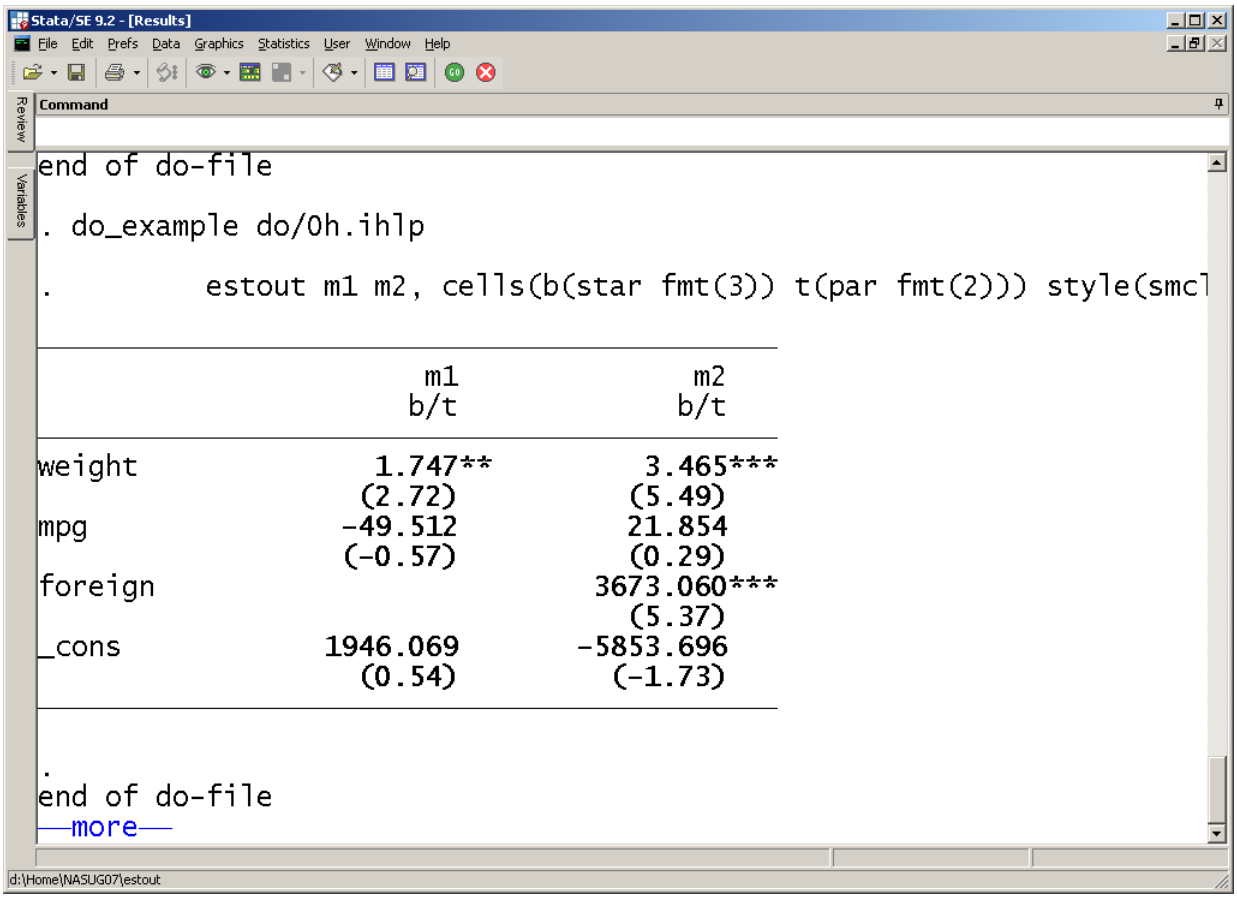
end of do-file
. do_example do/0g.ihlp
. estout m1 m2, cells("b p" se) style(smcl)
m1 m2
b/se p b/se p
weight 1.746559 .0081298 3.464706 5.99e-07
.6413538 .630749
mpg -49.51222 .5673237 21.8536 .7692938
86.15604 74.22114
foreign 3673.06 9.72e-07
683.9783
_cons 1946.069 .5901886 -5853.696 .0874262
3597.05 3376.987
.
end of do-file
--more--
d:\Home\NASUG07\estout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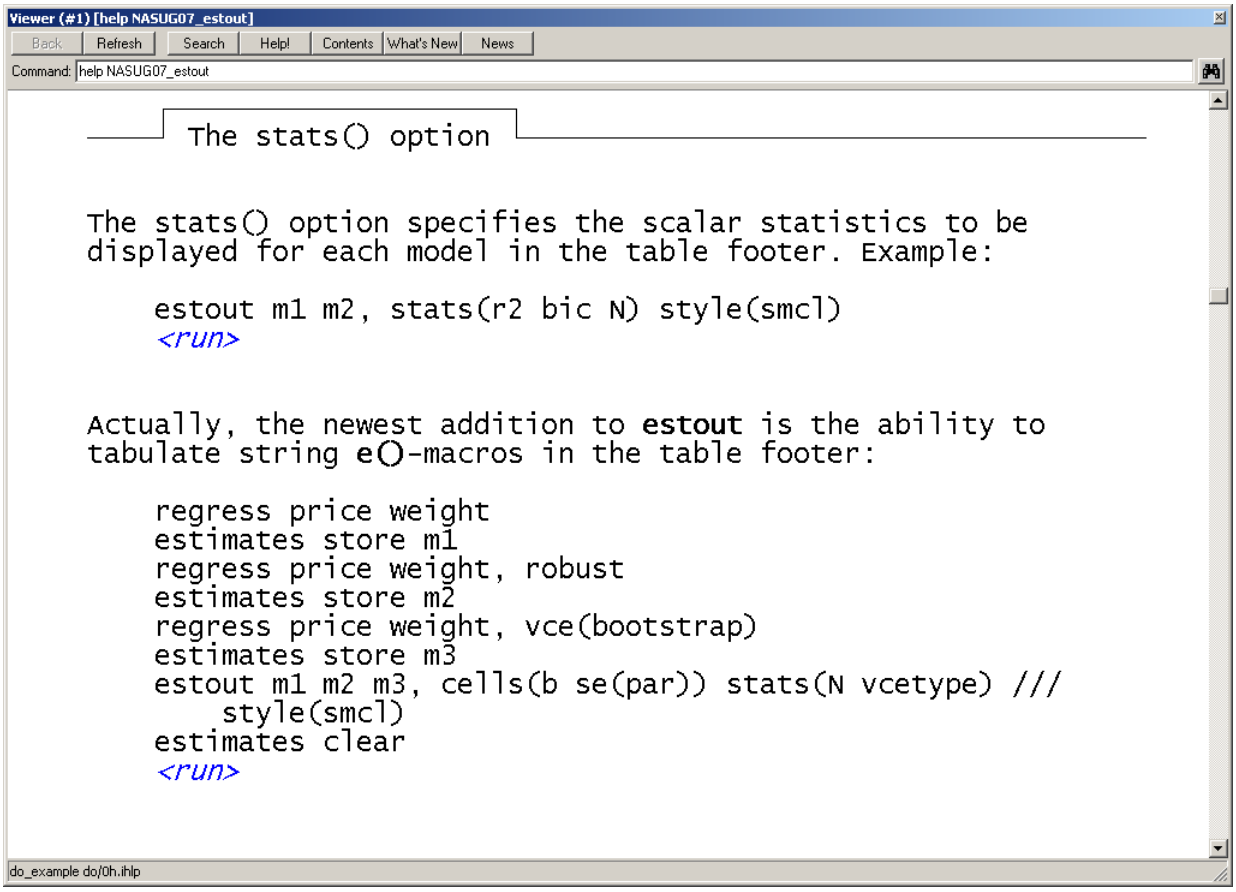
end of do-file
. do_example do/0h.ihlp
. estout m1 m2, cells(b(star fmt(3)) t(par fmt(2))) style(smcl
m1 m2
b/t b/t
weight 1.747** 3.465***
(2.72) (5.49)
mpg -49.512 21.854
(-0.57) (0.29)
foreign 3673.060***
(5.37)
_cons 1946.069 -5853.696
(0.54) (-1.73)
.
end of do-file
--more--
d:\Home\NASUG07\estout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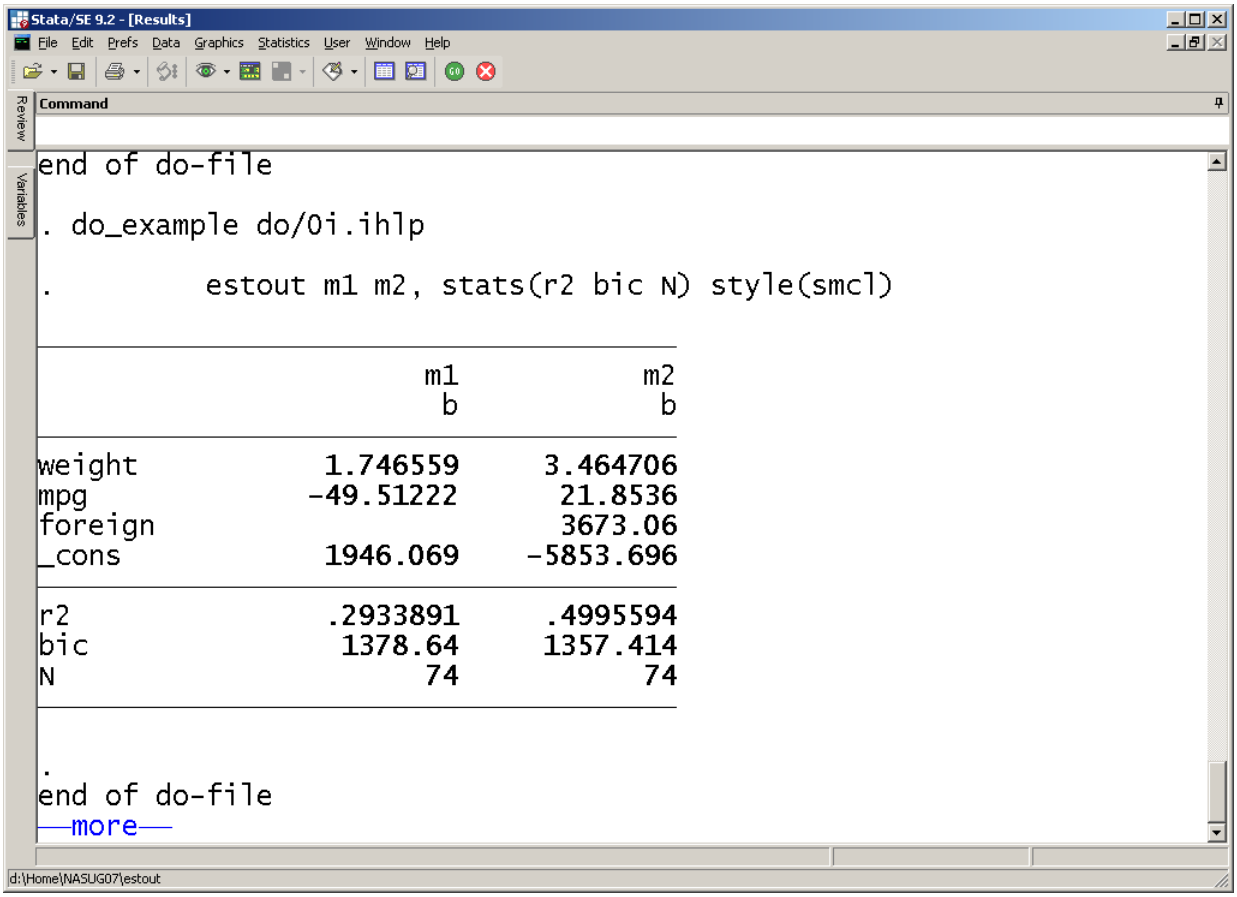
The stats() option
The stats() option specifies the scalar statistics to be displayed for each model in the table footer. Example:
estout m1 m2, stats(r2 bic N) style(smcl)
<run>
Actually, the newest addition to estout is the ability to tabulate string e()-macros in the table footer:
regress price weight
estimates store m1
regress price weight, robust
estimates store m2
regress price weight, vce(bootstrap)
estimates store m3
estout m1 m2 m3, cells(b se(par)) stats(N vcetype) ///
style(smcl)
estimates clear
<run>
do_example do/0h.ihlp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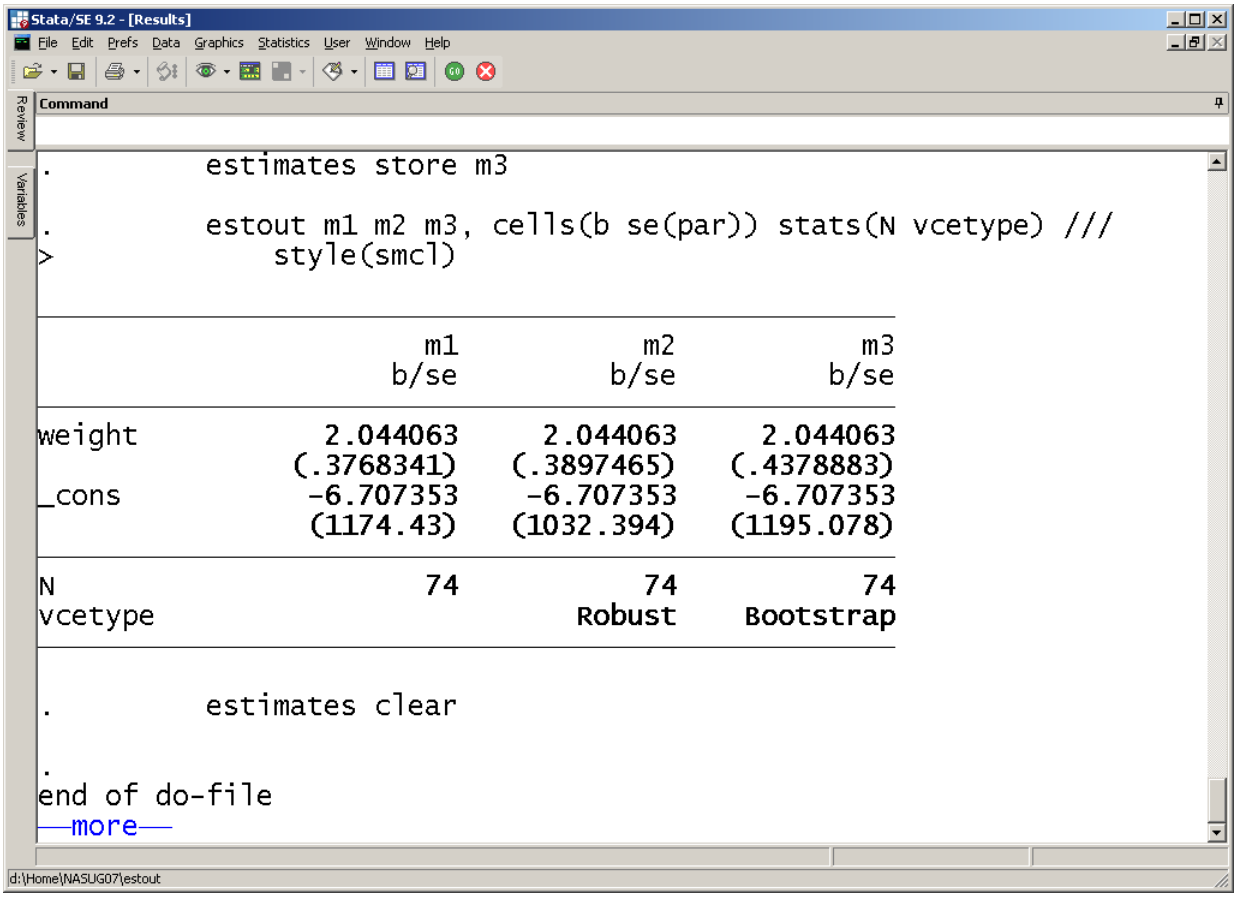
end of do-file
. do_example do/0i.ihlp
. estout m1 m2, stats(r2 bic N) style(smcl)
m1 m2
b b
weight 1.746559 3.464706
mpg -49.51222 21.8536
foreign 3673.06
_cons 1946.069 -5853.696
r2 .2933891 .4995594
bic 1378.64 1357.414
N 74 74
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
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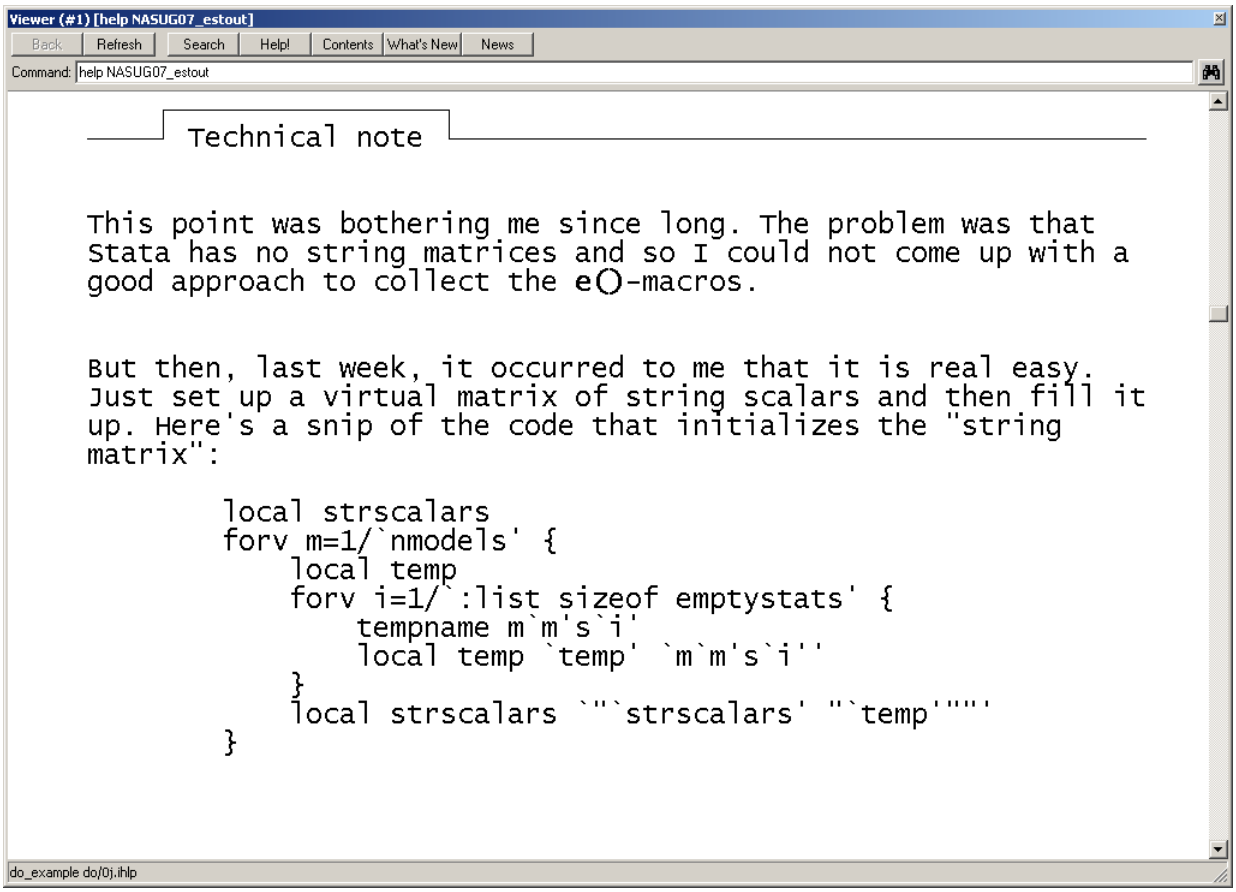
. estimates store m3
. estout m1 m2 m3, cells(b se(par)) stats(N vcetype) ///
> style(smcl)
m1 m2 m3
b/se b/se b/se
weight 2.044063 2.044063 2.044063
(.3768341) (.3897465) (.4378883)
_cons -6.707353 -6.707353 -6.707353
(1174.43) (1032.394) (1195.078)
N 74 74 74
vcetype Robust Bootstrap
. estimates clear
.
end of do-file
--more--
d:\Home\NASUG07\estout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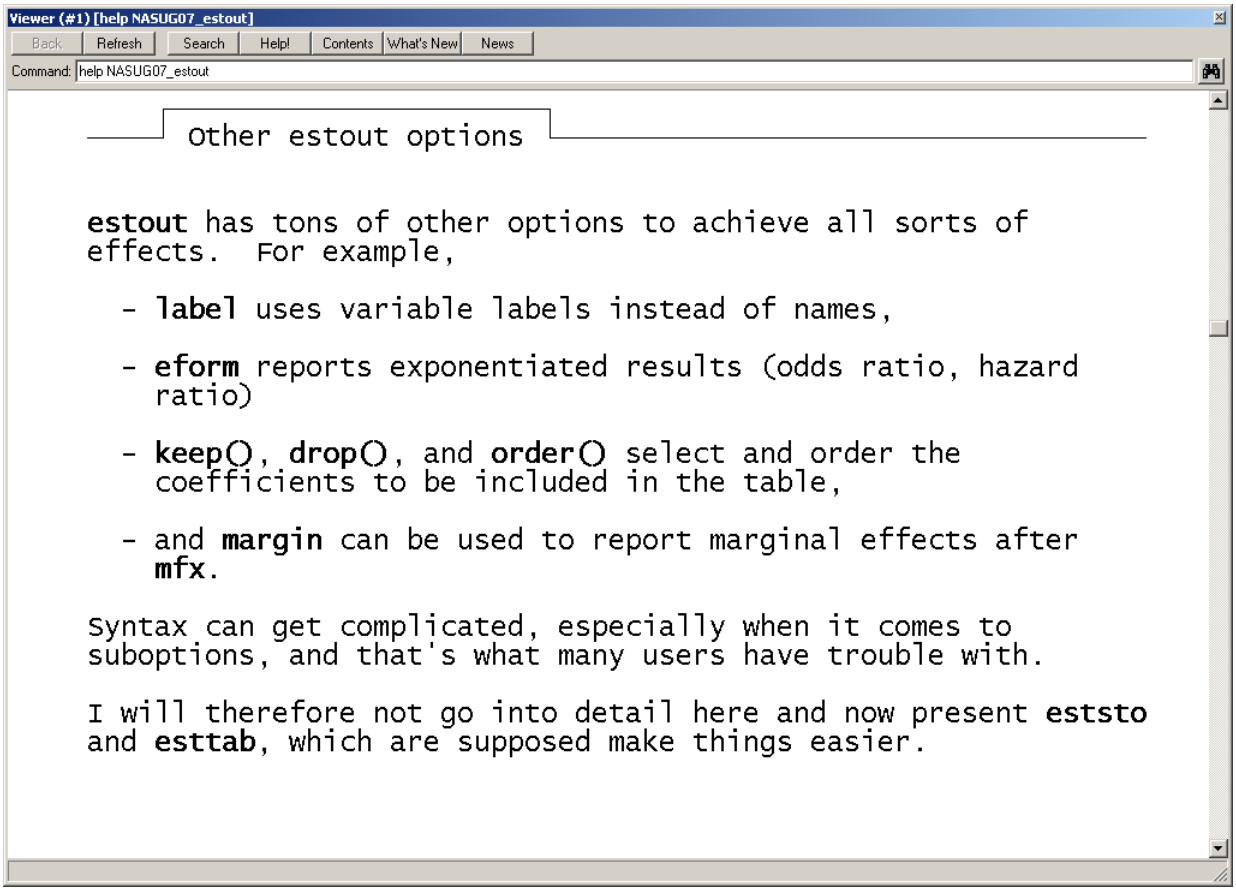
Technical note
This point was bothering me since long. The problem was that Stata has no string matrices and so I could not come up with a good approach to collect the e()-macros.
But then, last week, it occurred to me that it is real easy. Just set up a virtual matrix of string scalars and then fill it up. Here's a snip of the code that initializes the "string matrix":
local strscalars
forv m=1/`nmodels' {
local temp
forv i=1/`:list sizeof emptystats' {
tempname m`m's`i'
local temp `temp' `m`m's`i''
}
local strscalars `"`strscalars' "`temp'""'
}
do_example do/0j.ihlp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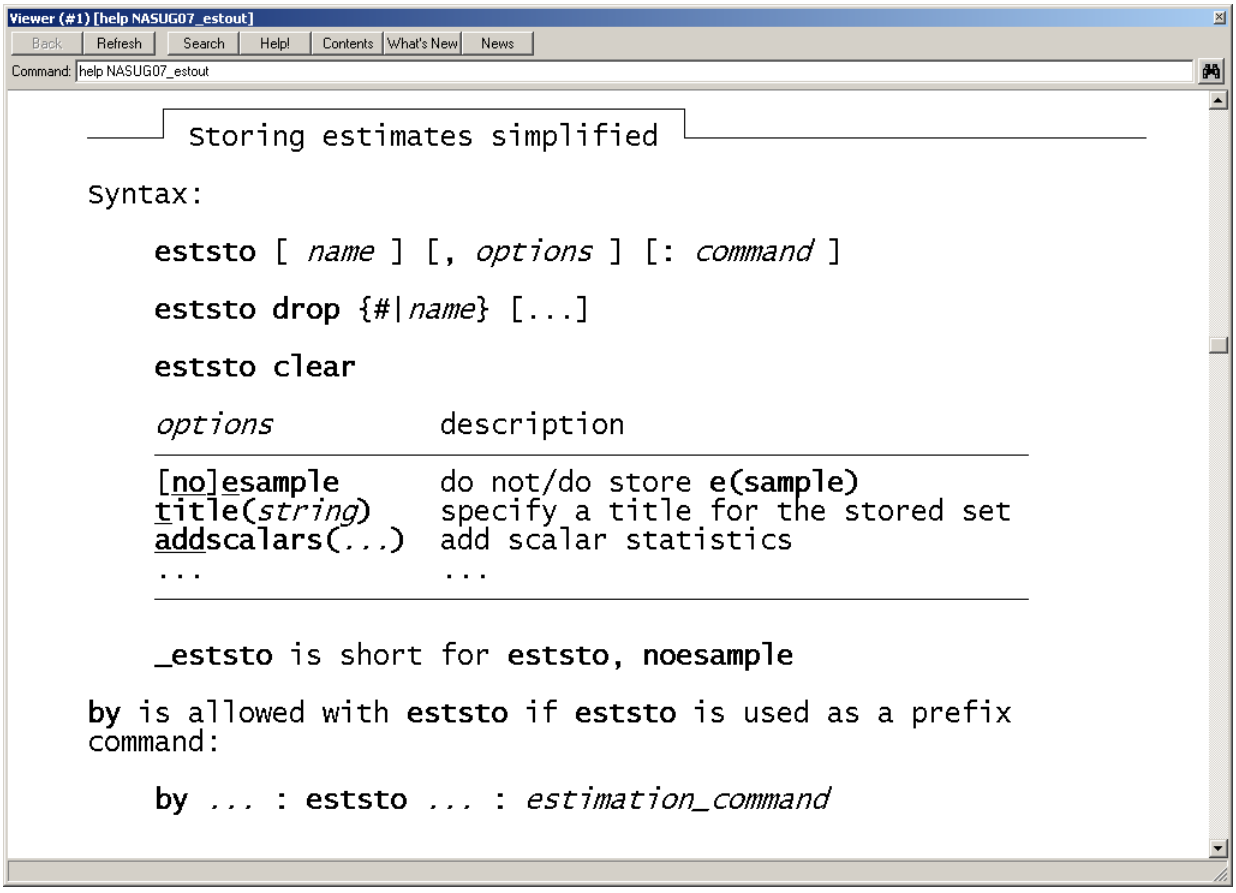
Other estout options
estout has tons of other options to achieve all sorts of effects. For example,
- label uses variable labels instead of names,
- eform reports exponentiated results (odds ratio, hazard ratio)
- keep(), drop(), and order() select and order the coefficients to be included in the table,
- and margin can be used to report marginal effects after mfx.
Syntax can get complicated, especially when it comes to suboptions, and that's what many users have trouble with.
I will therefore not go into detail here and now present eststo and esttab, which are supposed make things easier.


Viewer (#1) [help NASUG07_estout]
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Command: help NASUG07_estout
Storing estimates simplified
Syntax:
eststo [ name ] [, options ] [: command ]
eststo drop {#|name} [...]
eststo clear
options
description
[no]esample
do not/do store e(sample)
title(string)
specify a title for the stored set
addscalars(...)
add scalar statistics
...
...
_eststo is short for eststo, noesample
by is allowed with eststo if eststo is used as a prefix command:
by ... : eststo ... : estimation_command

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Storing estimates simplified

Basic example:

```
sysuse auto, clear

regress price weight mpg
eststo

regress price weight mpg foreign
eststo

estout, style(smcl)
<run>

macro dir
<run>

eststo clear
<run>
```

Stata/SE 9.2 - [Results]

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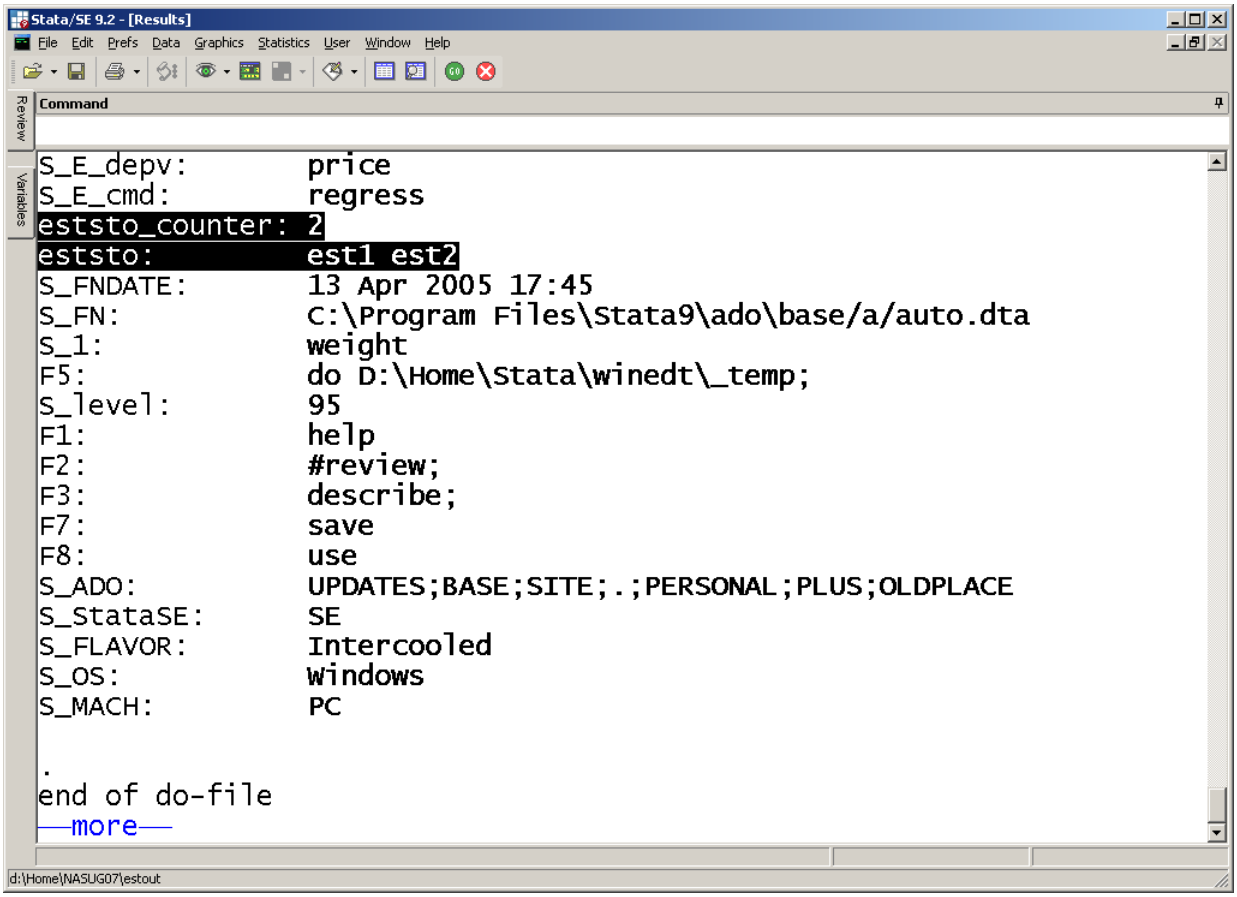
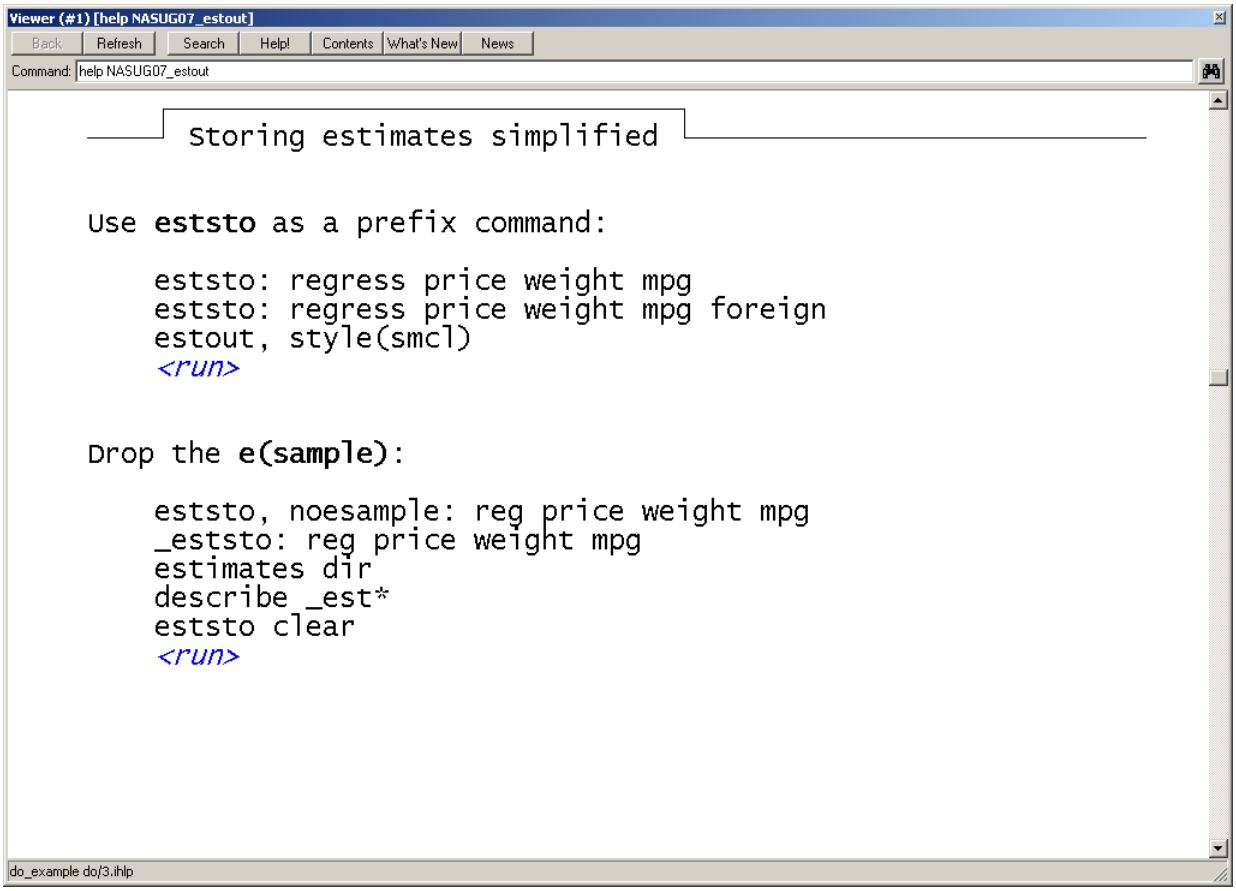
Review | Variables | Command

```
     foreign |     3673.06   683.9783     5.37   0.000     2308.909
       _cons |    -5853.696   3376.987    -1.73   0.087    -12588.88
------------------------------------------------------------------------------

.         eststo
(est2 stored)

.
.         estout, style(smcl)

------------------------------------------------
                      est1         est2
                         b            b
------------------------------------------------
weight           1.746559     3.464706
mpg             -49.51222      21.8536
foreign                        3673.06
_cons            1946.069    -5853.696
------------------------------------------------

.
end of do-file
--more--
```

d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
S_E_depv: price
S_E_cmd: regress
eststo_counter: 2
eststo: est1 est2
S_FNDATE: 13 Apr 2005 17:45
S_FN: C:\Program Files\Stata9\ado\base/a/auto.dta
S_1: weight
F5: do D:\Home\Stata\winedt_temp;
S_level: 95
F1: help
F2: #review;
F3: describe;
F7: save
F8: use
S_ADO: UPDATES;BASE;SITE;.;PERSONAL;PLUS;OLDPLACE
S_StataSE: SE
S_FLAVOR: Intercooled
S_OS: Windows
S_MACH: PC
.
end of do-file
--more--
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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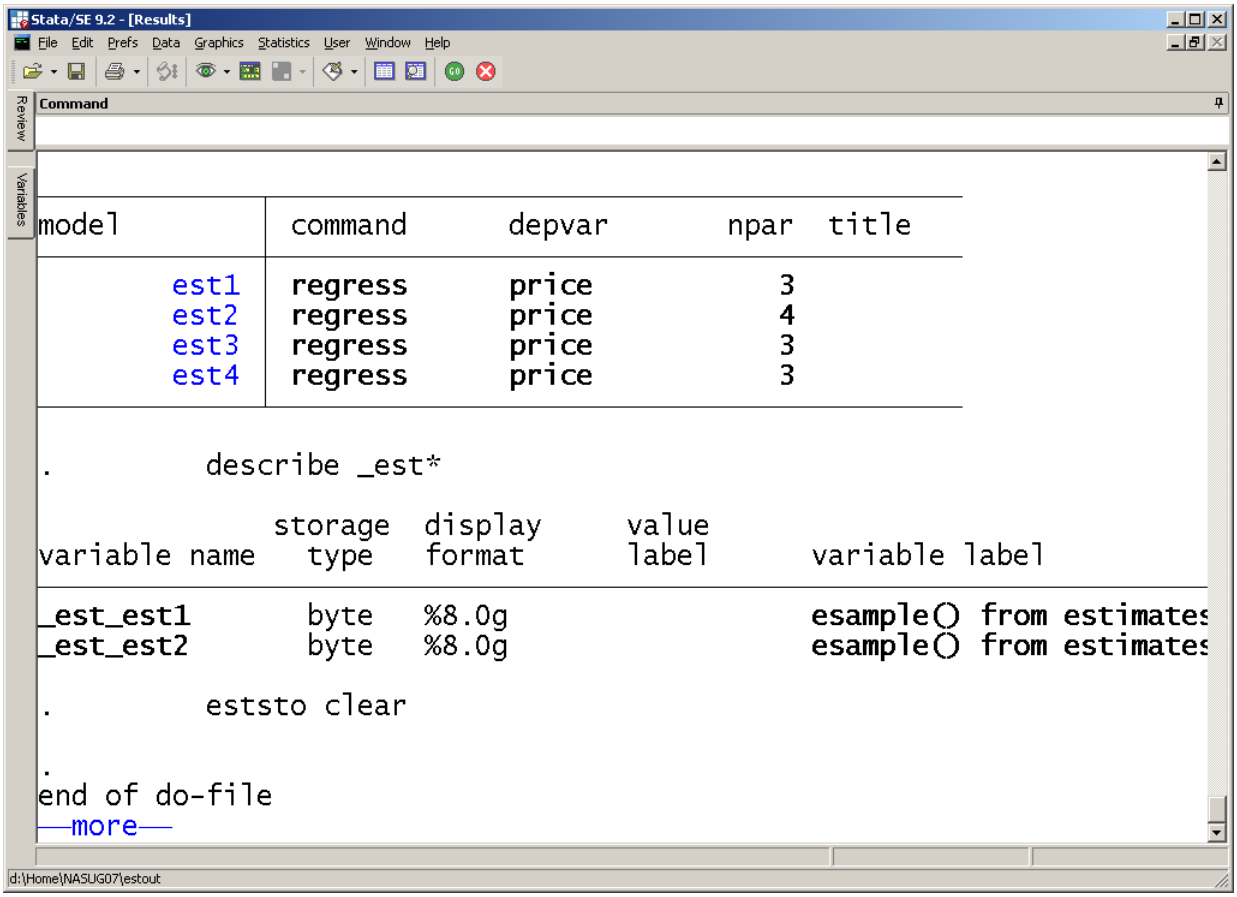
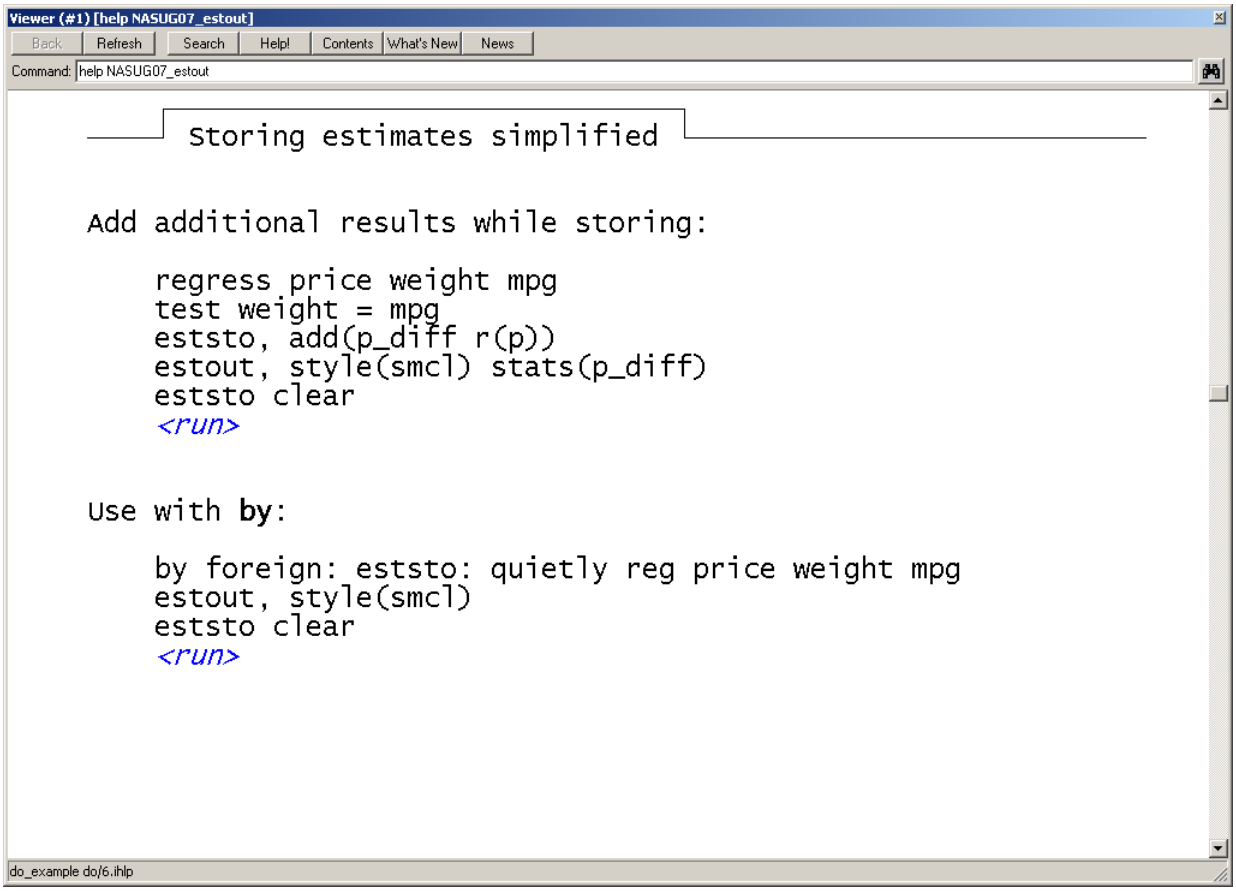
Command: help NASUG07_estout
Storing estimates simplified
Use eststo as a prefix command:
eststo: regress price weight mpg
eststo: regress price weight mpg foreign
estout, style(smcl)
<run>
Drop the e(sample):
eststo, noesample: reg price weight mpg
_eststo: reg price weight mpg
estimates dir
describe _est*
eststo clear
<run>
do_example do/3.ihlp


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
model | command depvar npar title
est1 regress price 3
est2 regress price 4
est3 regress price 3
est4 regress price 3
. describe _est*
variable name storage type display format value label variable label
_est_est1 byte %8.0g esample() from estimates
_est_est2 byte %8.0g esample() from estimates
. eststo clear
.
end of do-file
--more--
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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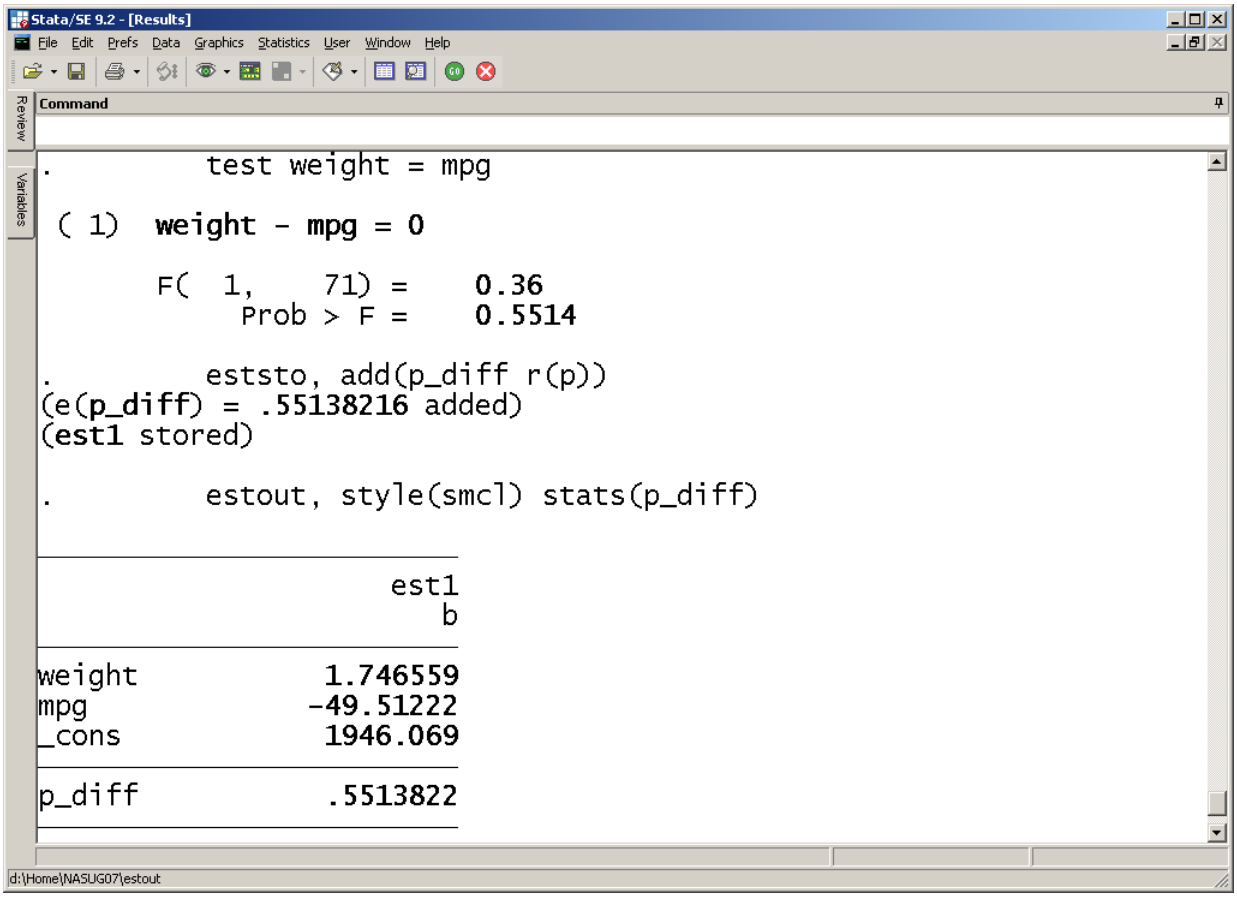
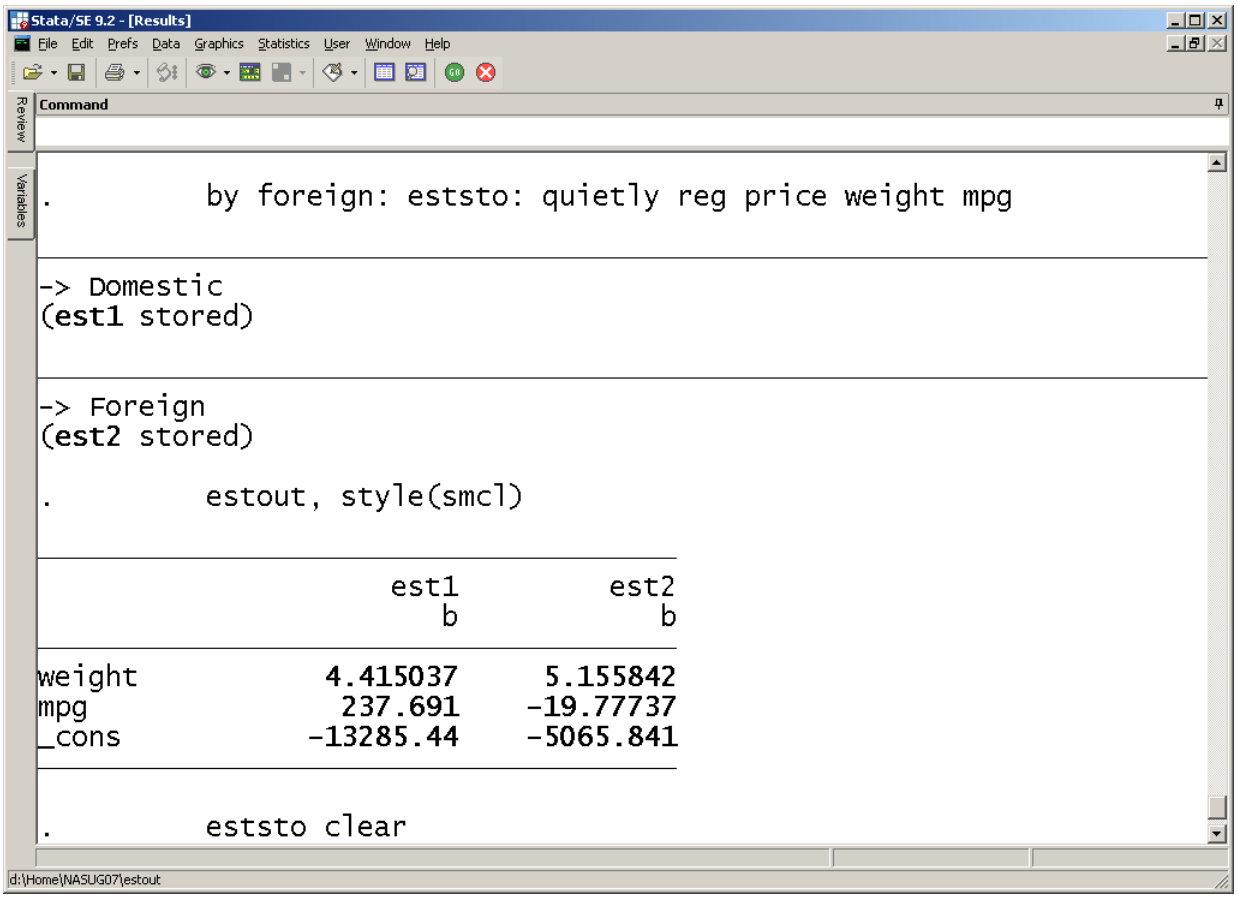
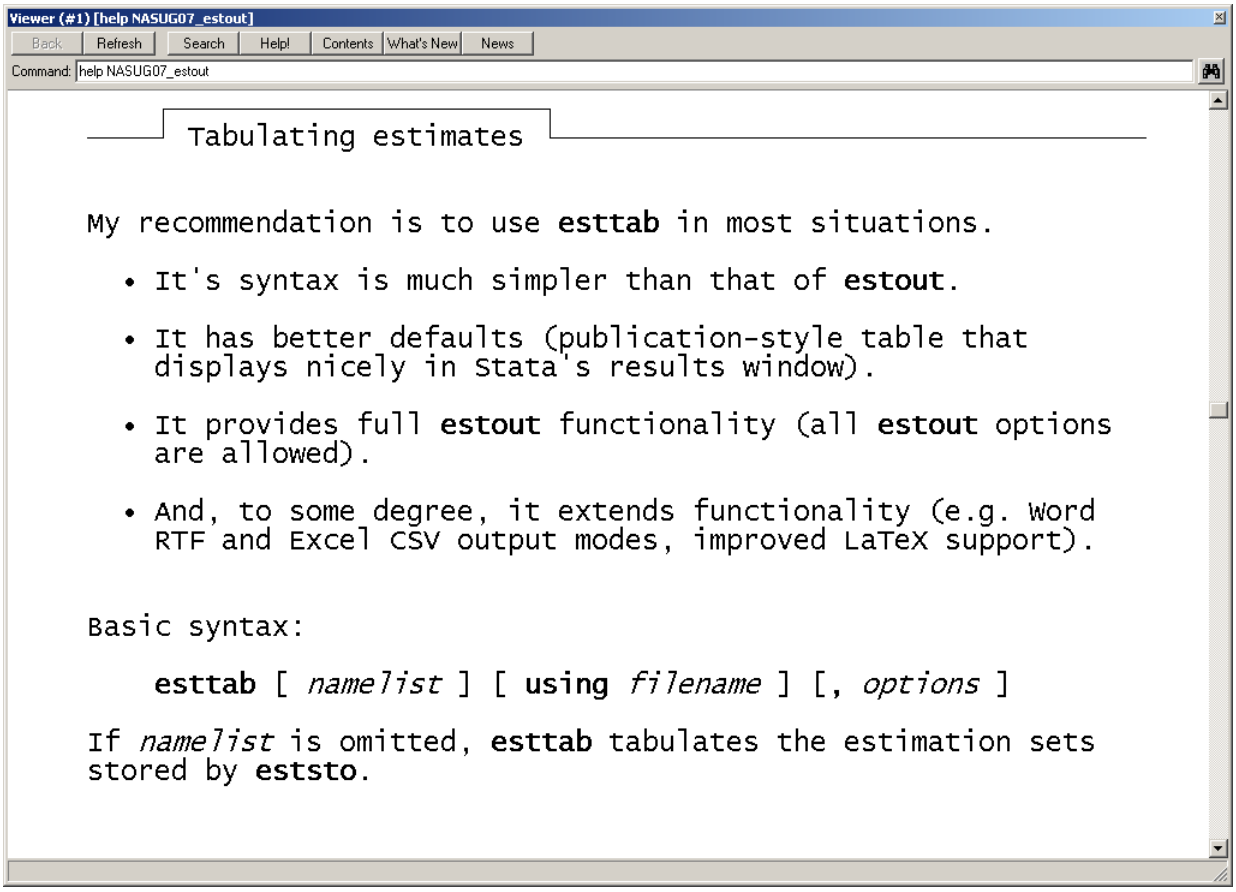
Command: help NASUG07_estout
Storing estimates simplified
Add additional results while storing:
regress price weight mpg
test weight = mpg
eststo, add(p_diff r(p))
estout, style(smcl) stats(p_diff)
eststo clear
<run>
Use with by:
by foreign: eststo: quietly reg price weight mpg
estout, style(smcl)
eststo clear
<run>
do_example do/6.ihlp


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
. test weight = mpg
( 1) weight - mpg = 0
F( 1, 71) = 0.36
Prob > F = 0.5514
. eststo, add(p_diff r(p))
(e(p_diff) = .55138216 added)
(est1 stored)
. estout, style(smcl) stats(p_diff)
est1
b
weight 1.746559
mpg -49.51222
_cons 1946.069
p_diff .5513822
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
. by foreign: eststo: quietly reg price weight mpg
-> Domestic
(est1 stored)
-> Foreign
(est2 stored)
. estout, style(smcl)
est1 est2
b b
weight 4.415037 5.155842
mpg 237.691 -19.77737
_cons -13285.44 -5065.841
. eststo clear
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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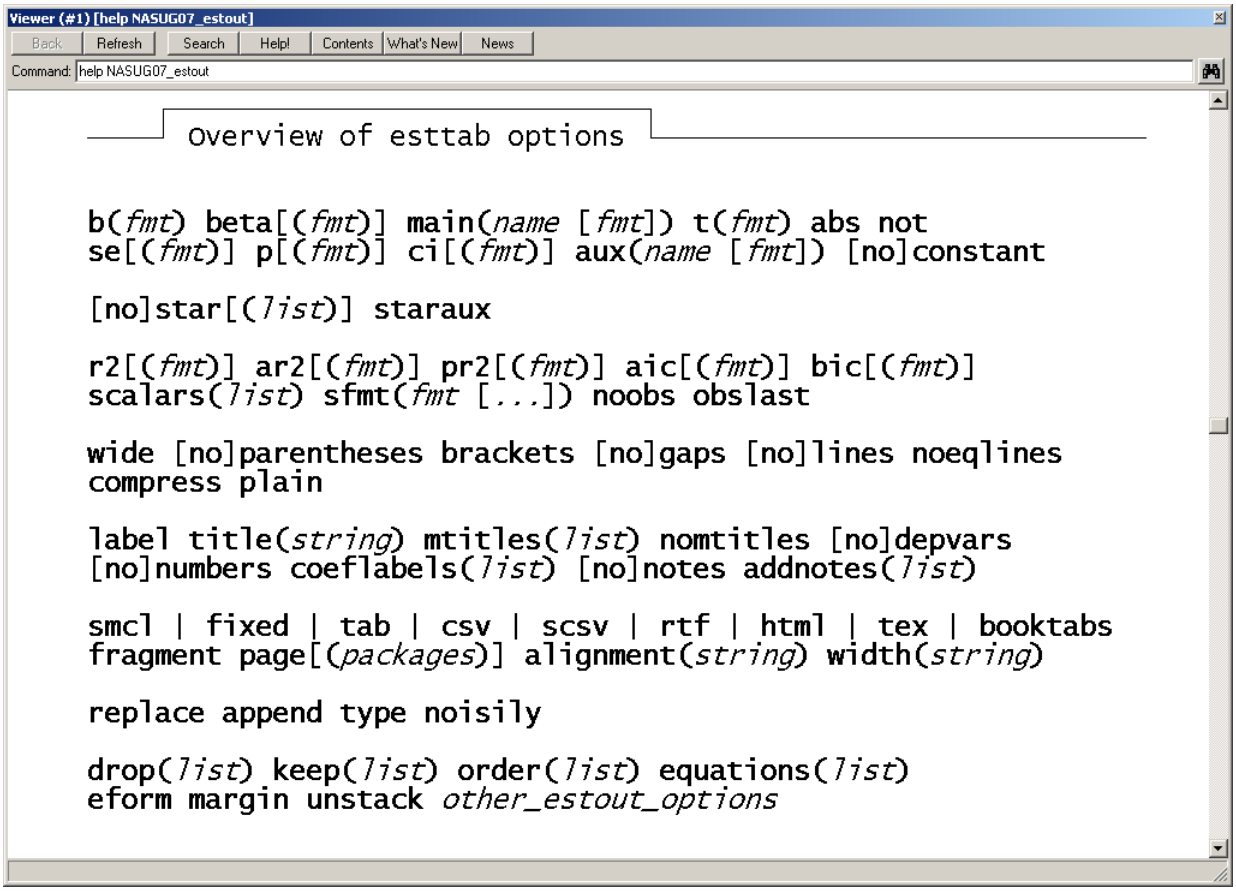
Command: help NASUG07_estout
Tabulating estimates
My recommendation is to use esttab in most situations.
• It's syntax is much simpler than that of estout.
• It has better defaults (publication-style table that displays nicely in Stata's results window).
• It provides full estout functionality (all estout options are allowed).
• And, to some degree, it extends functionality (e.g. Word RTF and Excel CSV output modes, improved LaTeX support).
Basic syntax:
esttab [ namelist ] [ using filename ] [, options ]
If namelist is omitted, esttab tabulates the estimation sets stored by eststo.


Viewer (#1) [help NASUG07_estout]
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Command: help NASUG07_estout
Overview of esttab options
b(fmt) beta[(fmt)] main(name [fmt]) t(fmt) abs not
se[(fmt)] p[(fmt)] ci[(fmt)] aux(name [fmt]) [no]constant
[no]star[(list)] staraux
r2[(fmt)] ar2[(fmt)] pr2[(fmt)] aic[(fmt)] bic[(fmt)]
scalars(list) sfmt(fmt [...]) noobs obslast
wide [no]parentheses brackets [no]gaps [no]lines noeqlines
compress plain
label title(string) mtitles(list) nomtitles [no]depvars
[no]numbers coeflabels(list) [no]notes addnotes(list)
smcl | fixed | tab | csv | scsv | rtf | html | tex | booktabs
fragment page[(packages)] alignment(string) width(string)
replace append type noisily
drop(list) keep(list) order(list) equations(list)
eform margin unstack other_estout_options

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Tabulating estimates using esttab

Default table:

```
sysuse auto, clear
eststo: regress price weight mpg
eststo: regress price weight mpg foreign
esttab
<run>
```

Display standard errors and add some summary statistics:

```
esttab, se ar2 nostar
<run>
```

Display beta coefficients:

```
esttab, beta not
<run>
```

Stata/SE 9.2 - [Results]

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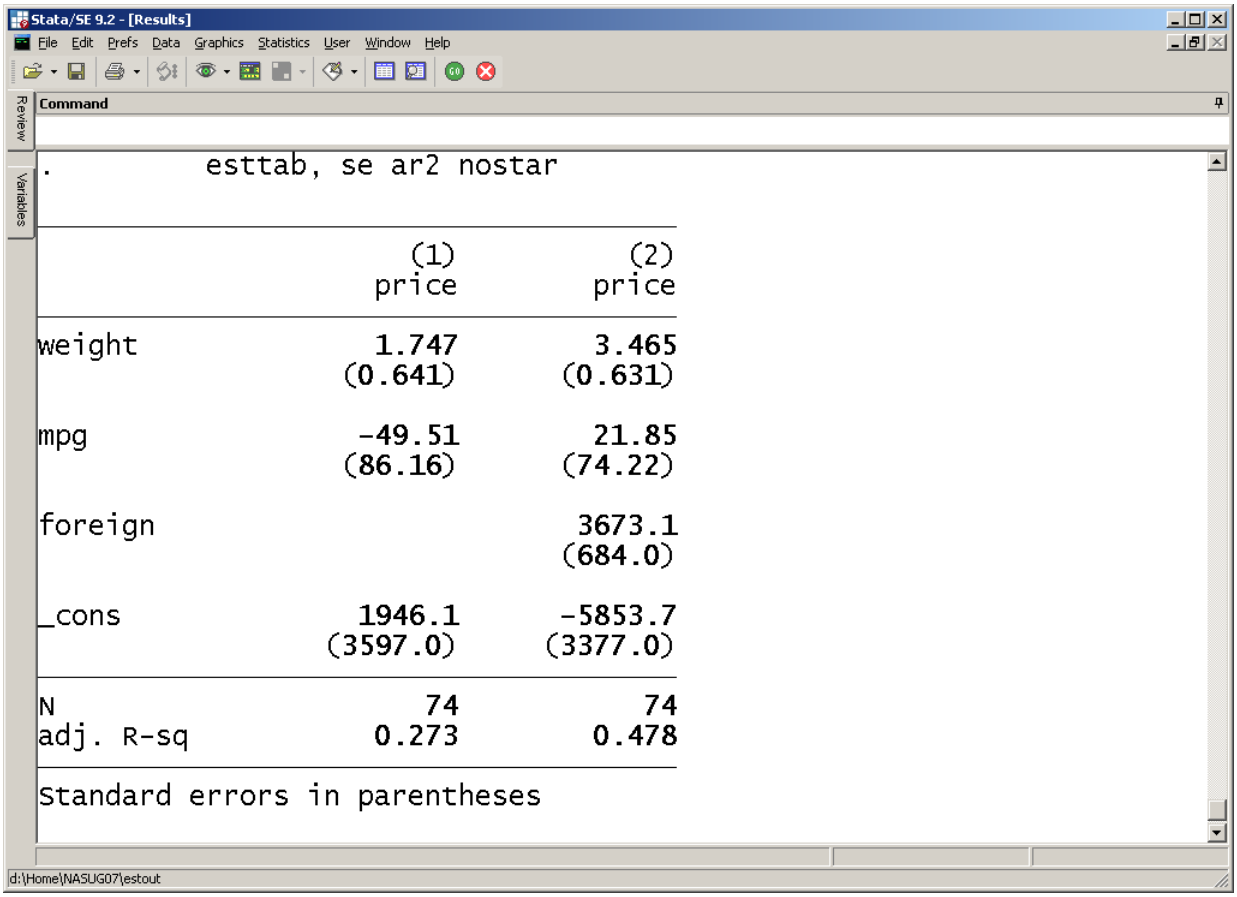
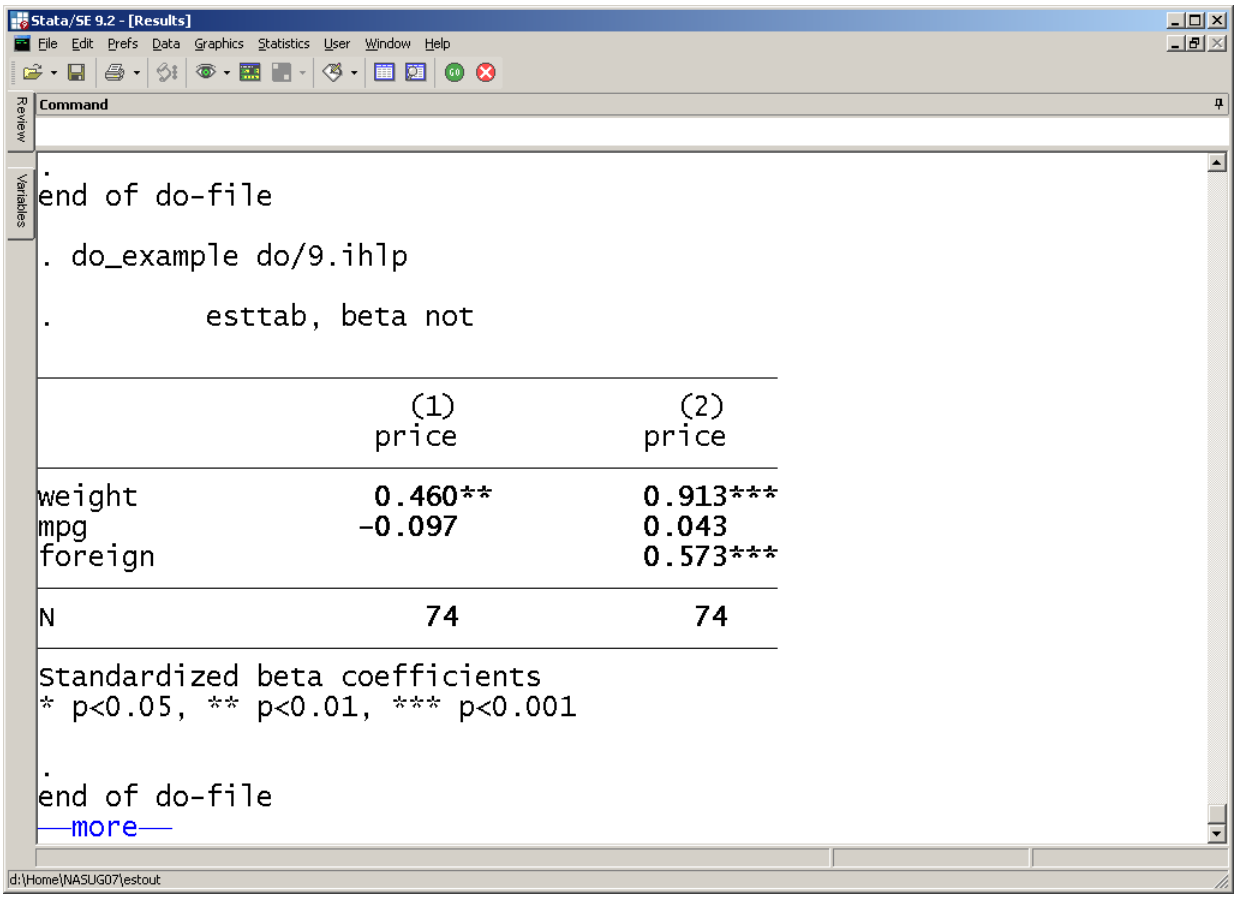
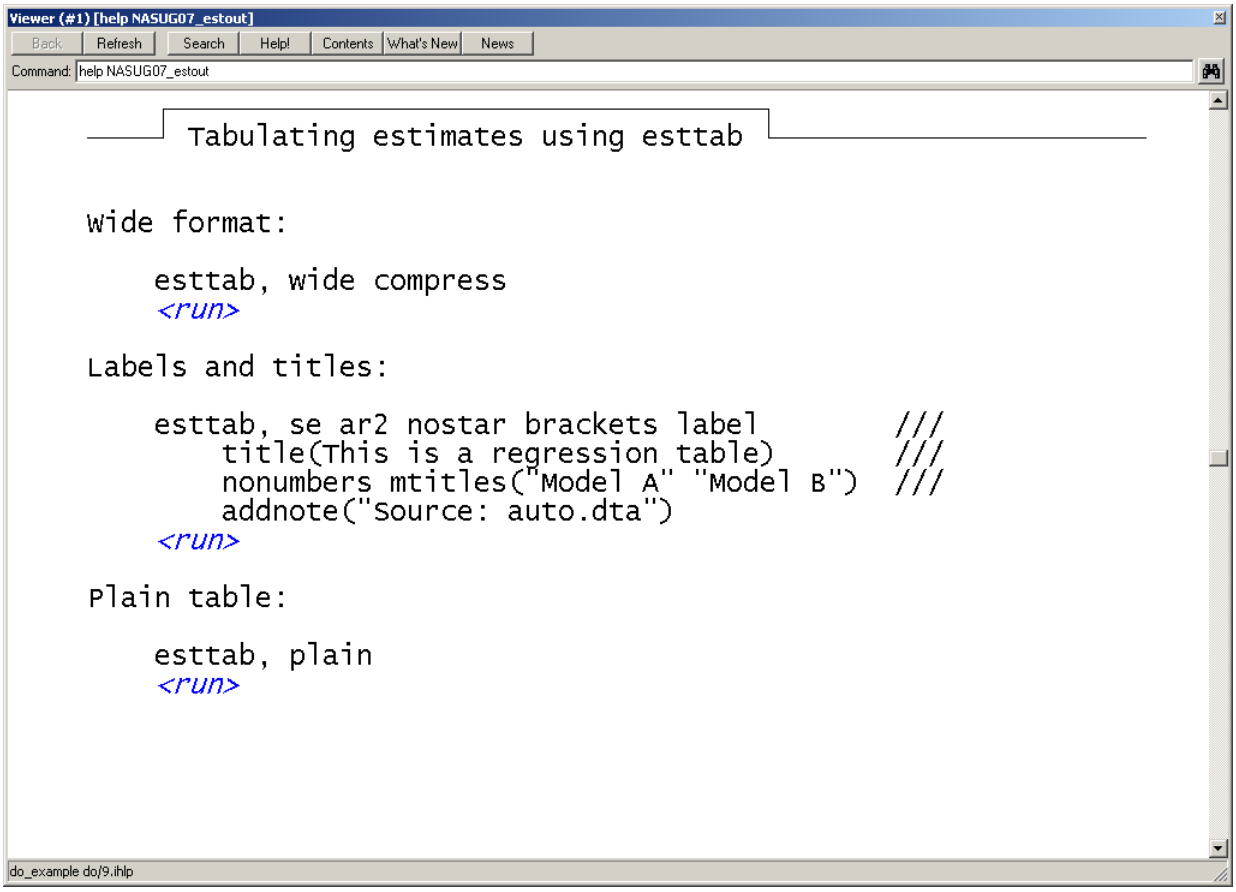
Review | Variables | Command

```
. esttab

------------------------------------------------------------
                      (1)             (2)
                    price           price
------------------------------------------------------------
weight              1.747**         3.465***
                   (2.72)          (5.49)

mpg                -49.51           21.85
                  (-0.57)          (0.29)

foreign                            3673.1***
                                   (5.37)

_cons               1946.1         -5853.7
                    (0.54)         (-1.73)
------------------------------------------------------------
N                       74              74
------------------------------------------------------------
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
```

d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
. esttab, se ar2 nostar
(1) price
(2) price
weight 1.747 (0.641) 3.465 (0.631)
mpg -49.51 (86.16) 21.85 (74.22)
foreign 3673.1 (684.0)
_cons 1946.1 (3597.0) -5853.7 (3377.0)
N 74 74
adj. R-sq 0.273 0.478
Standard errors in parentheses
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
. end of do-file
. do_example do/9.ihlp
. esttab, beta not
(1) price
(2) price
weight 0.460** 0.913***
mpg -0.097 0.043
foreign 0.573***
N 74 74
Standardized beta coefficients
* p<0.05, ** p<0.01, *** p<0.001
. end of do-file
--more--
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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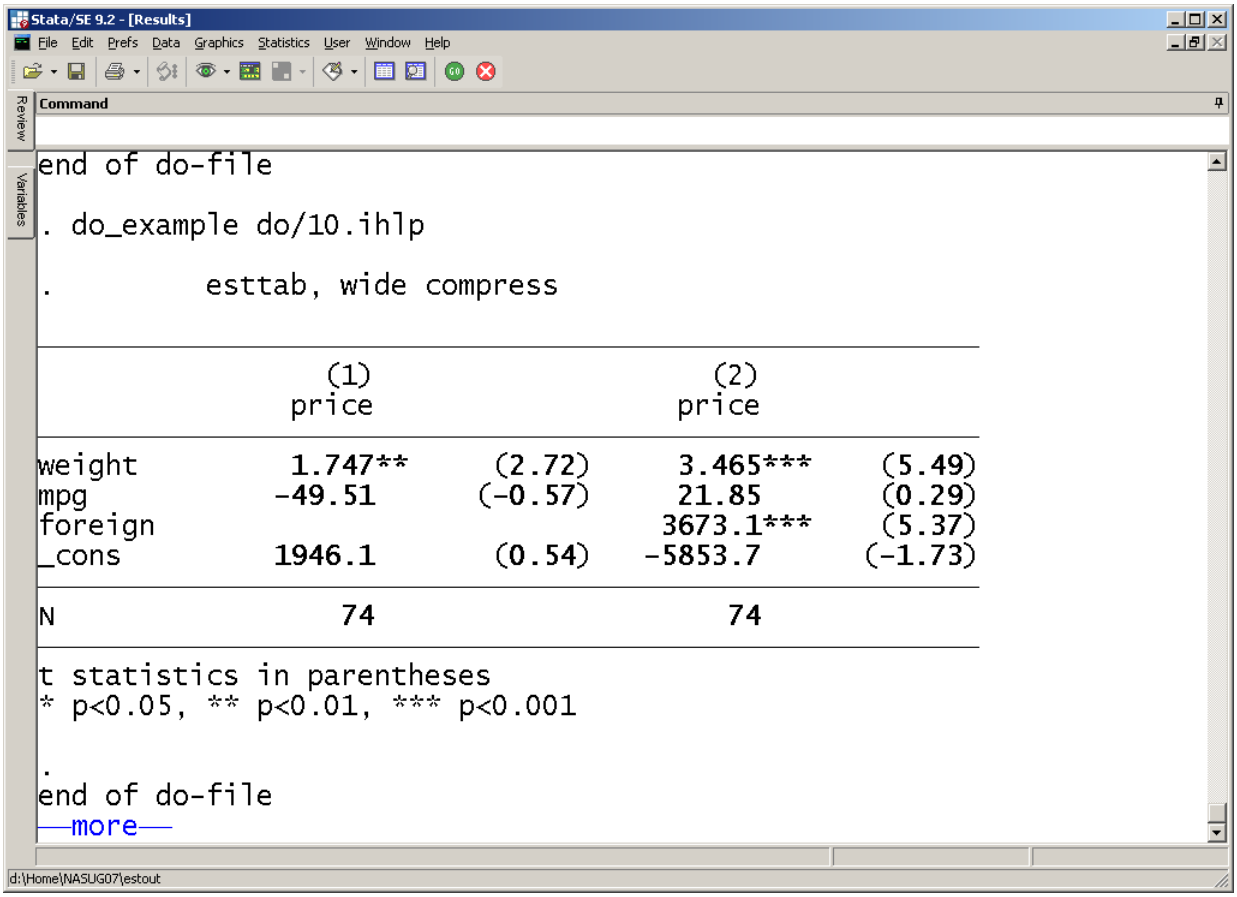
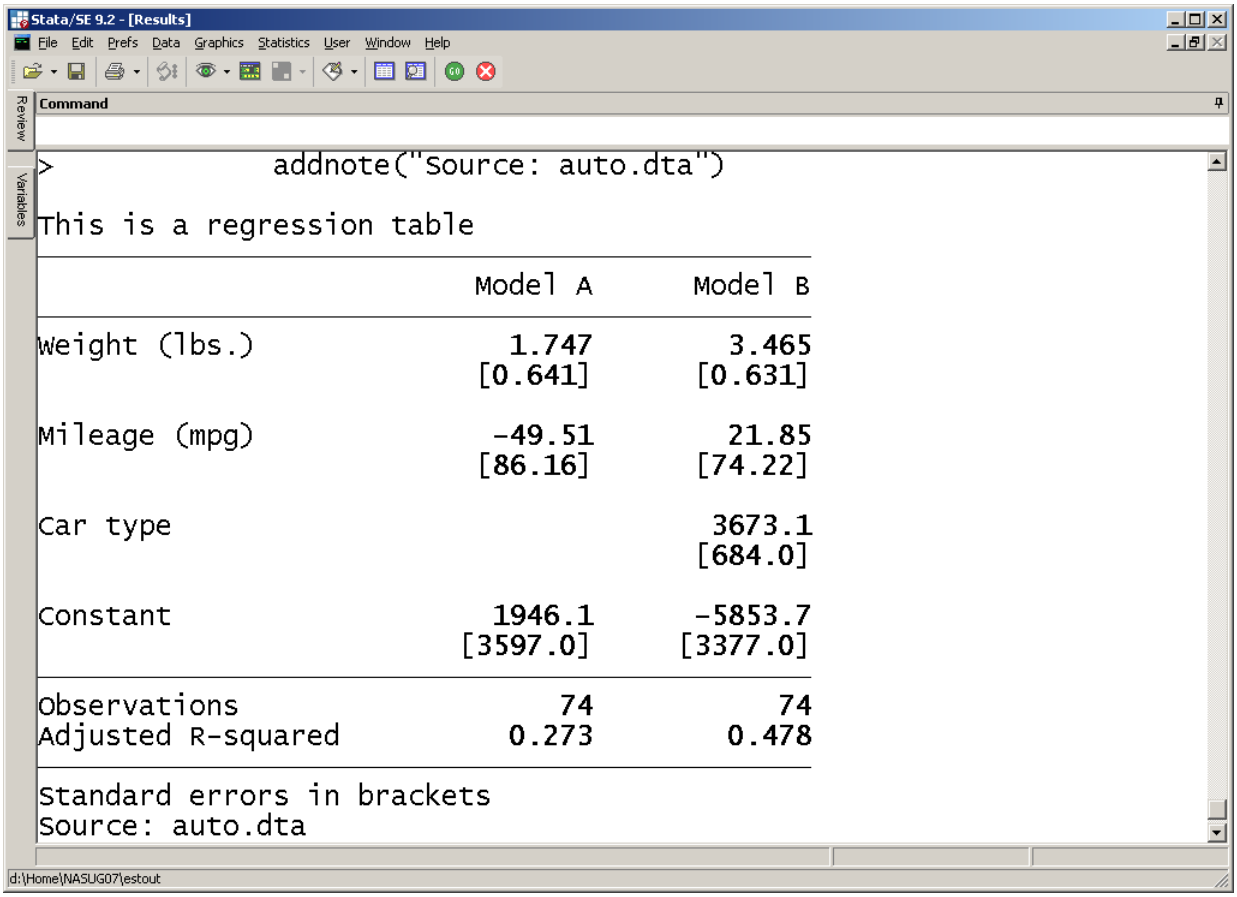
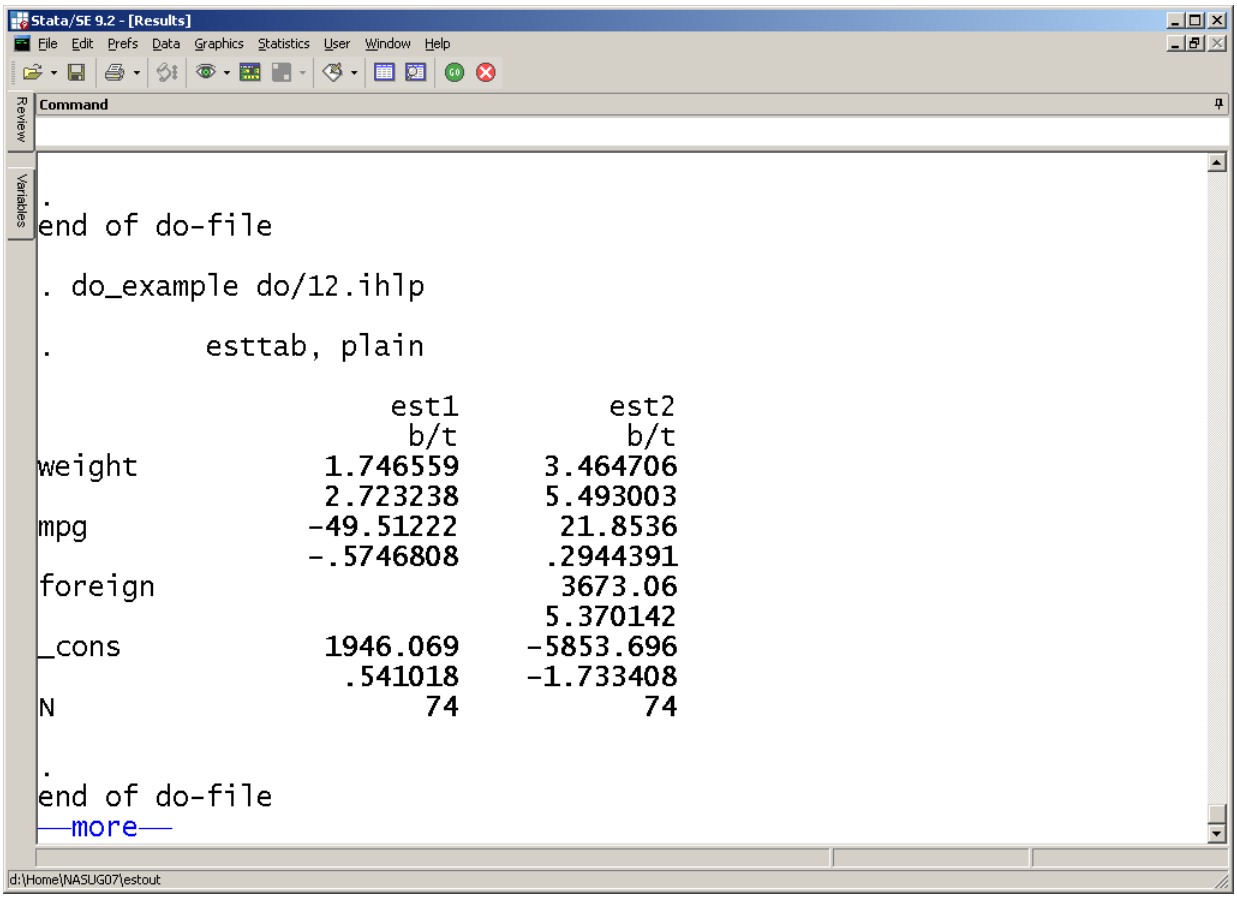
Command: help NASUG07_estout
Tabulating estimates using esttab
Wide format:
esttab, wide compress
<run>
Labels and titles:
esttab, se ar2 nostar brackets label ///
title(This is a regression table) ///
nonumbers mtitles("Model A" "Model B") ///
addnote("Source: auto.dta")
<run>
Plain table:
esttab, plain
<run>
do_example do/9.ihlp


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Review
Variables
Command
end of do-file
. do_example do/10.ihlp
. esttab, wide compress
(1) price
(2) price
weight 1.747** (2.72) 3.465*** (5.49)
mpg -49.51 (-0.57) 21.85 (0.29)
foreign 3673.1*** (5.37)
_cons 1946.1 (0.54) -5853.7 (-1.73)
N 74 74
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
> addnote("Source: auto.dta")
This is a regression table
Model A Model B
Weight (lbs.) 1.747 3.465
[0.641] [0.631]
Mileage (mpg) -49.51 21.85
[86.16] [74.22]
Car type 3673.1
[684.0]
Constant 1946.1 -5853.7
[3597.0] [3377.0]
Observations 74 74
Adjusted R-squared 0.273 0.478
Standard errors in brackets
Source: auto.dta
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
.
end of do-file
. do_example do/12.ihlp
. esttab, plain
est1 est2
b/t b/t
weight 1.746559 3.464706
2.723238 5.493003
mpg -49.51222 21.8536
-.5746808 .2944391
foreign 3673.06
5.370142
_cons 1946.069 -5853.696
.541018 -1.733408
N 74 74
.
end of do-file
--more--
d:\Home\NASUG07\estout

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Display formats

Numerical display formats may be specified as:

- official Stata's display formats such as **%9.0g** or **%8.2f**
- integer values such as **0**, **1**, **2**, etc. for fixed formats
- **a1**, **a2**, ..., or **a9** to cause **esta** choose a reasonable display format depending on the scale of the displayed number (the **#** in **a#** is the minimum number of significant digits)

The default display format depends on type of displayed statistic (e.g. **a3** for point estimates and fixed format 3 for p-values and the R-squared):

```
esttab, p r2 nostar wide
<run>
```

Specifying alternative formats:

```
esttab, b(%9.0g) p(4) r2(4) nostar wide
<run>
```

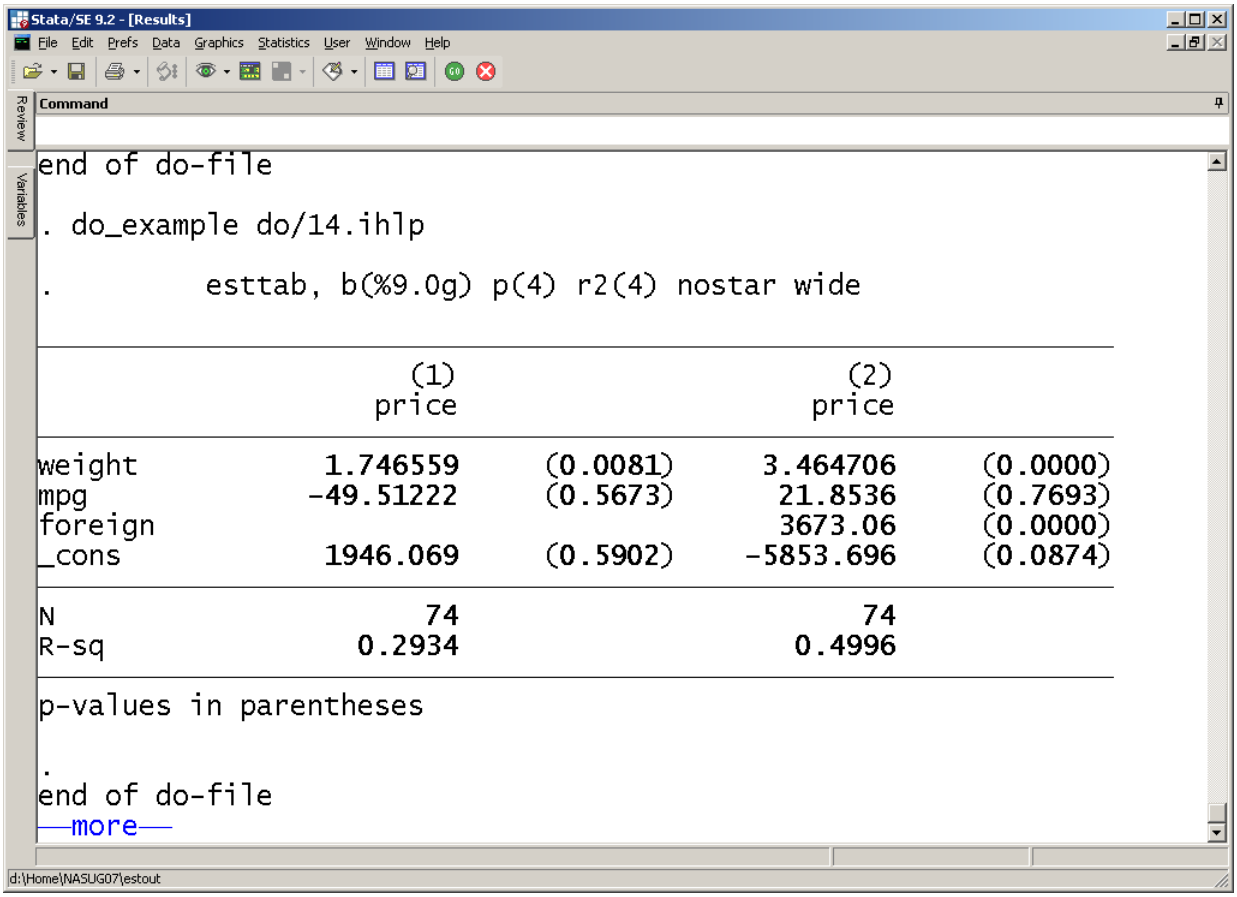
Stata/SE 9.2 - [Results]

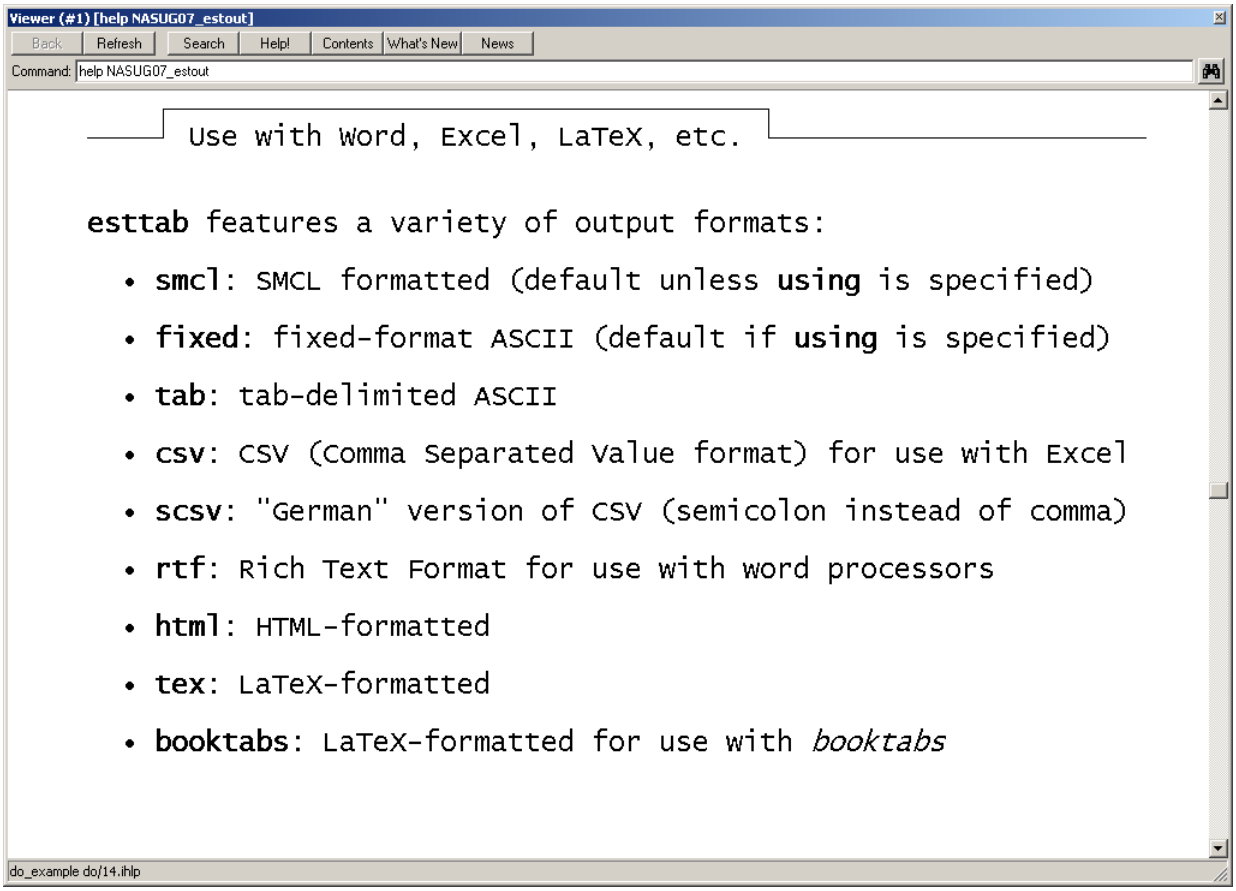
File Edit Prefs Data Graphics Statistics User Window Help

Command

```
end of do-file

. do_example do/13.ihlp

.         esttab, p r2 nostar wide

------------------------------------------------------------
                      (1)                 (2)
                    price               price
------------------------------------------------------------
weight            1.747      (0.008)  3.465      (0.000)
mpg             -49.51       (0.567)  21.85      (0.769)
foreign                                3673.1     (0.000)
_cons             1946.1     (0.590) -5853.7     (0.087)
------------------------------------------------------------
N                     74                  74
R-sq               0.293               0.500
------------------------------------------------------------
p-values in parentheses

.
end of do-file
--more--
```

d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
end of do-file
. do_example do/14.ihlp
. esttab, b(%9.0g) p(4) r2(4) nostar wide
(1) price
(2) price
weight 1.746559 (0.0081) 3.464706 (0.0000)
mpg -49.51222 (0.5673) 21.8536 (0.7693)
foreign 3673.06 (0.0000)
_cons 1946.069 (0.5902) -5853.696 (0.0874)
N 74 74
R-sq 0.2934 0.4996
p-values in parentheses
.
end of do-file
--more--
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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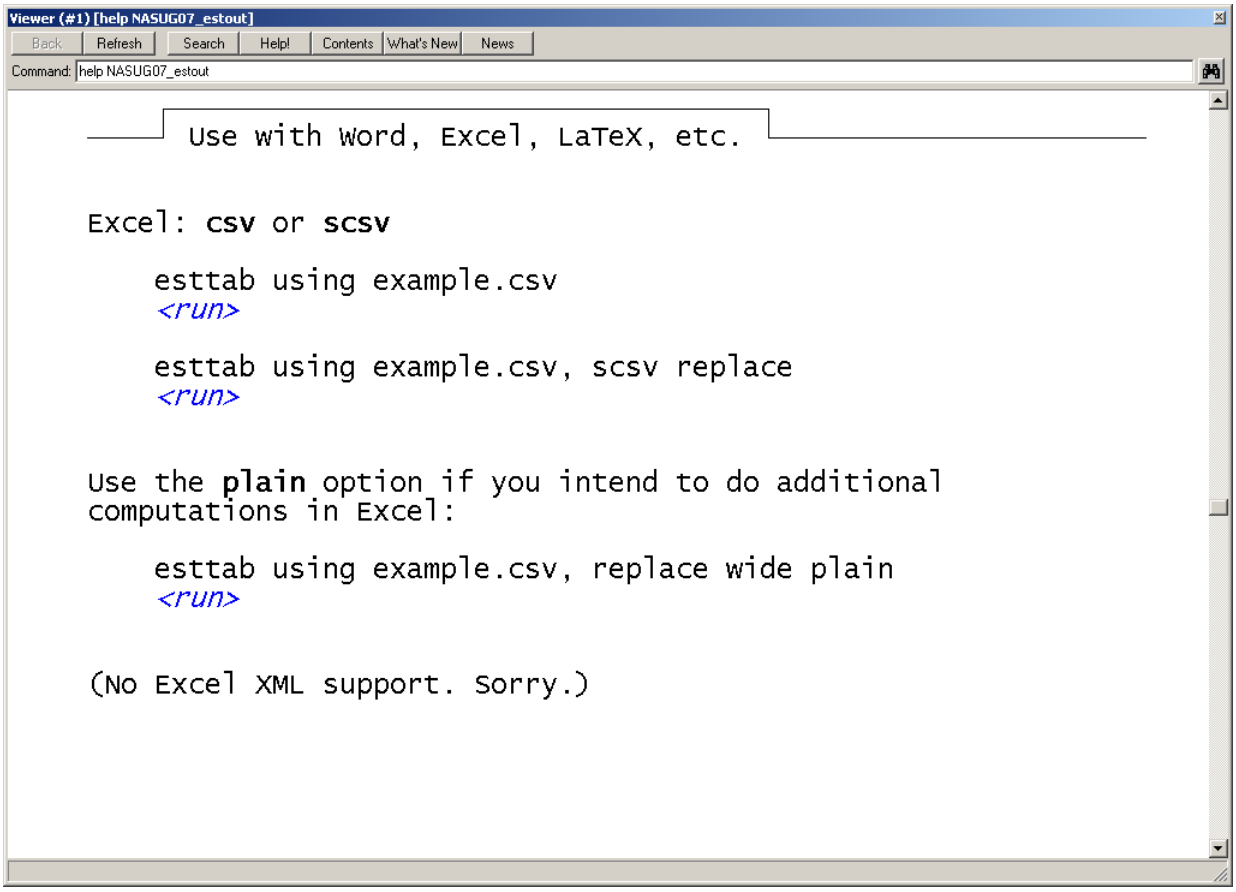
Command: help NASUG07_estout
Use with Word, Excel, LaTeX, etc.
esttab features a variety of output formats:
smcl: SMCL formatted (default unless using is specified)
fixed: fixed-format ASCII (default if using is specified)
tab: tab-delimited ASCII
csv: CSV (Comma Separated Value format) for use with Excel
scsv: "German" version of CSV (semicolon instead of comma)
rtf: Rich Text Format for use with word processors
html: HTML-formatted
tex: LaTeX-formatted
booktabs: LaTeX-formatted for use with booktabs
do_example do/14.ihlp


Viewer (#1) [help NASUG07_estout]
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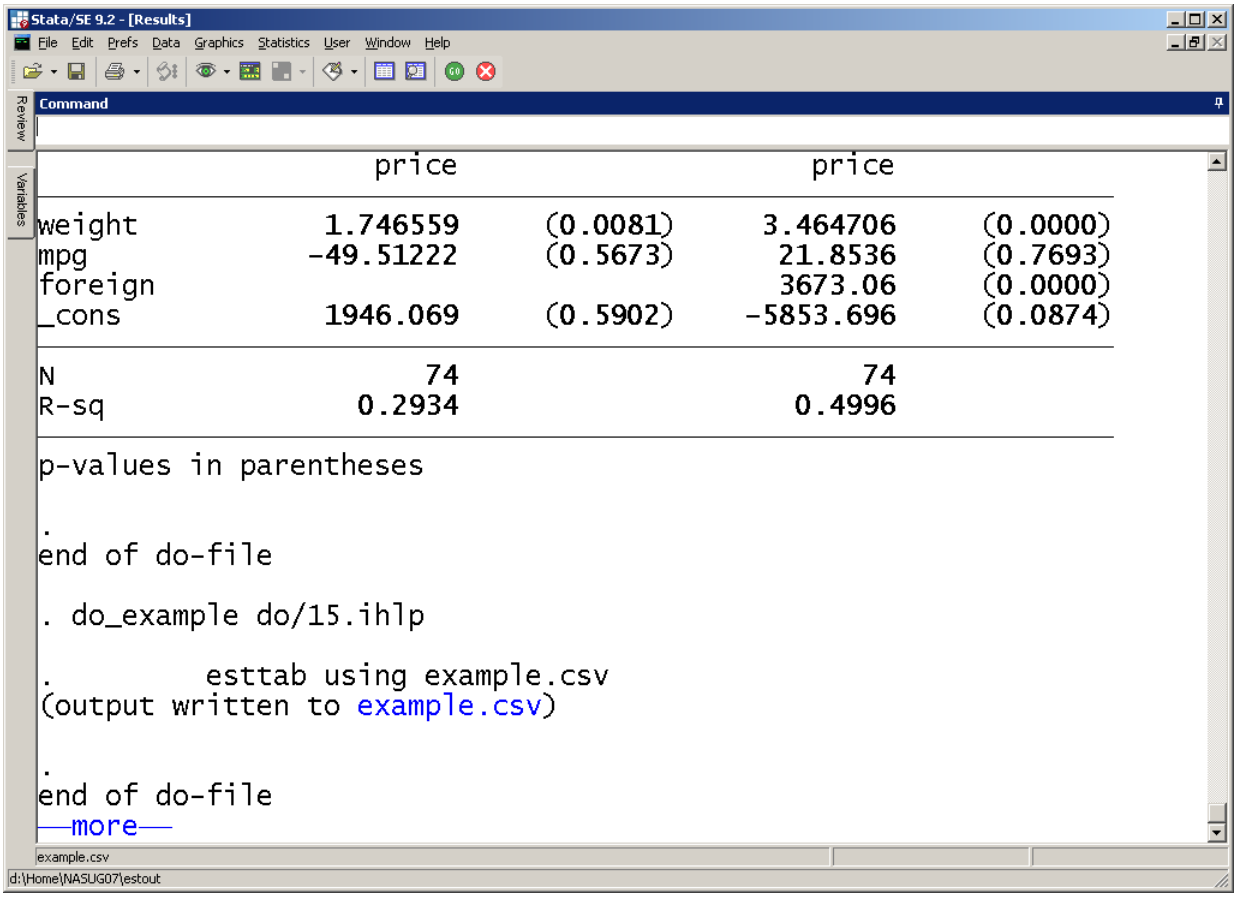
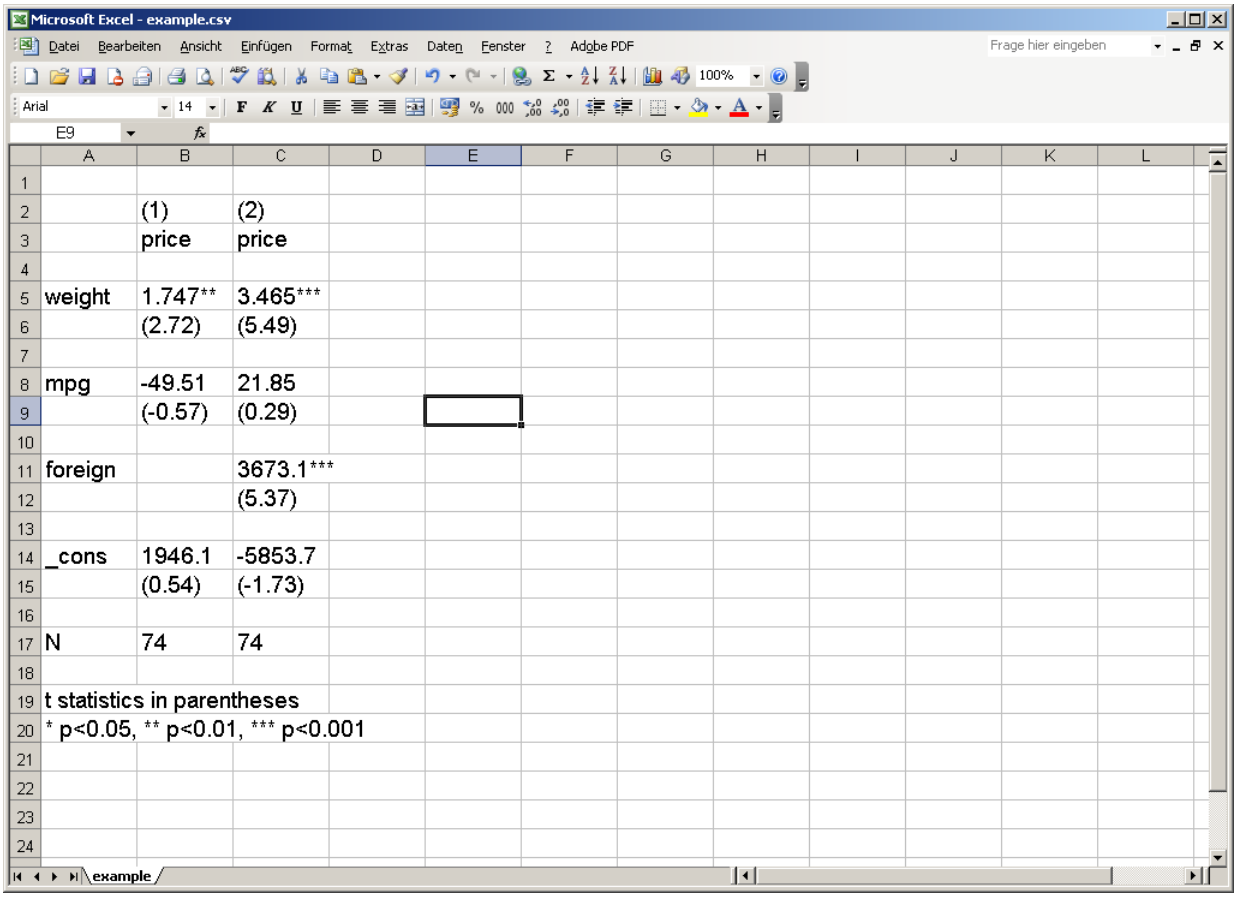
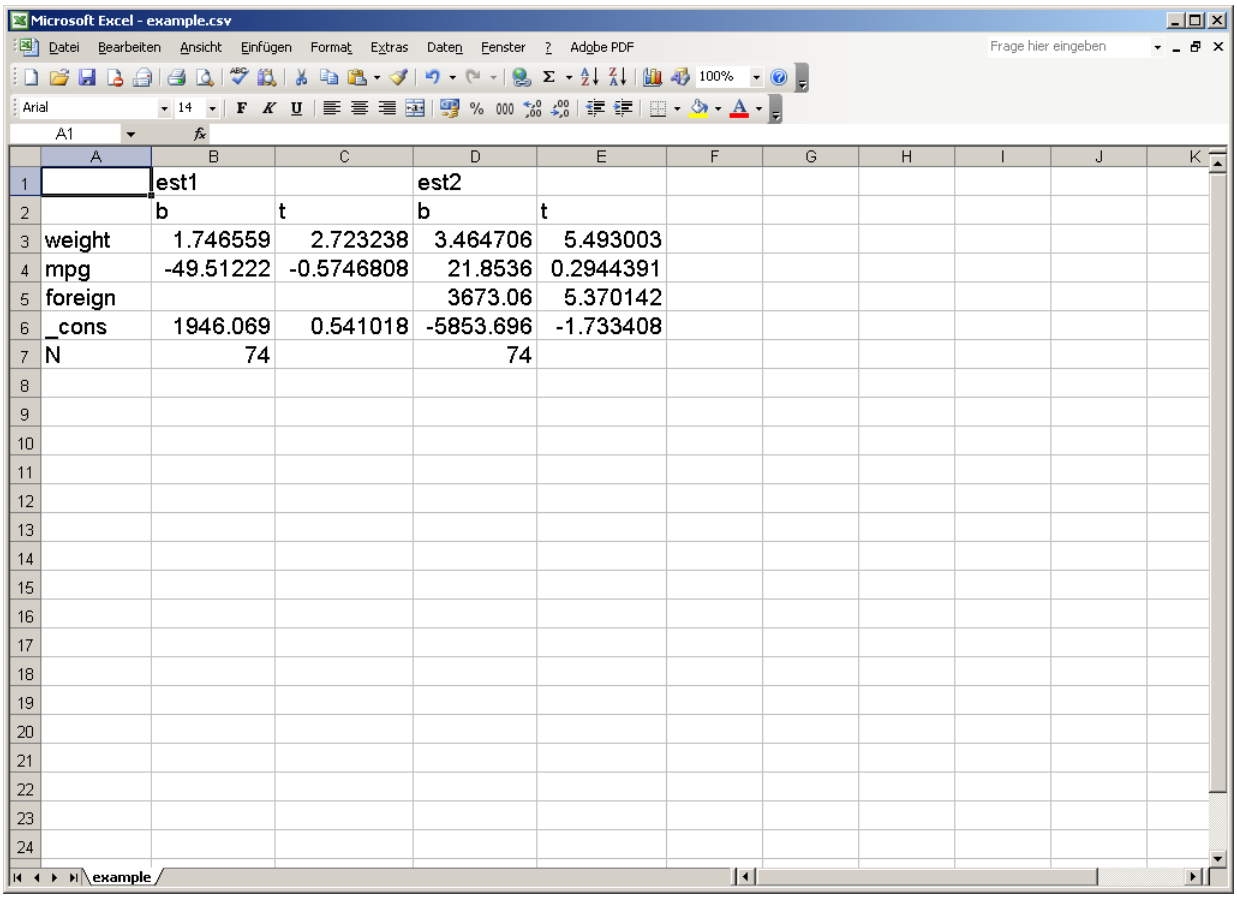
Command: help NASUG07_estout
Use with Word, Excel, LaTeX, etc.
Excel: csv or scsv
esttab using example.csv
<run>
esttab using example.csv, scsv replace
<run>
Use the plain option if you intend to do additional computations in Excel:
esttab using example.csv, replace wide plain
<run>
(No Excel XML support. Sorry.)


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
price price
weight 1.746559 (0.0081) 3.464706 (0.0000)
mpg -49.51222 (0.5673) 21.8536 (0.7693)
foreign 3673.06 (0.0000)
_cons 1946.069 (0.5902) -5853.696 (0.0874)
N 74 74
R-sq 0.2934 0.4996
p-values in parentheses
.
end of do-file
. do_example do/15.ihlp
. esttab using example.csv
(output written to example.csv)
.
end of do-file
--more--
example.csv
d:\Home\NASUG07\estout




| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | (1) | (2) | | | | | | | | | |
| 3 | | price | price | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | weight | 1.747** | 3.465*** | | | | | | | | | |
| 6 | | (2.72) | (5.49) | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | mpg | -49.51 | 21.85 | | | | | | | | | |
| 9 | | (-0.57) | (0.29) | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | foreign | | 3673.1*** | | | | | | | | | |
| 12 | | | (5.37) | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | _cons | 1946.1 | -5853.7 | | | | | | | | | |
| 15 | | (0.54) | (-1.73) | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | N | 74 | 74 | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | t statistics in parentheses | | | | | | | | | | | |
| 20 | * p<0.05, ** p<0.01, *** p<0.001 | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |




| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | est1 | | est2 | | | | | | | |
| 2 | | b | t | b | t | | | | | | |
| 3 | weight | 1.746559 | 2.723238 | 3.464706 | 5.493003 | | | | | | |
| 4 | mpg | -49.51222 | -0.5746808 | 21.8536 | 0.2944391 | | | | | | |
| 5 | foreign | | | 3673.06 | 5.370142 | | | | | | |
| 6 | _cons | 1946.069 | 0.541018 | -5853.696 | -1.733408 | | | | | | |
| 7 | N | 74 | | 74 | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

Use with Word, Excel, LaTeX, etc.

Word: **rtf**

```
esttab using example.rtf
<run>
```

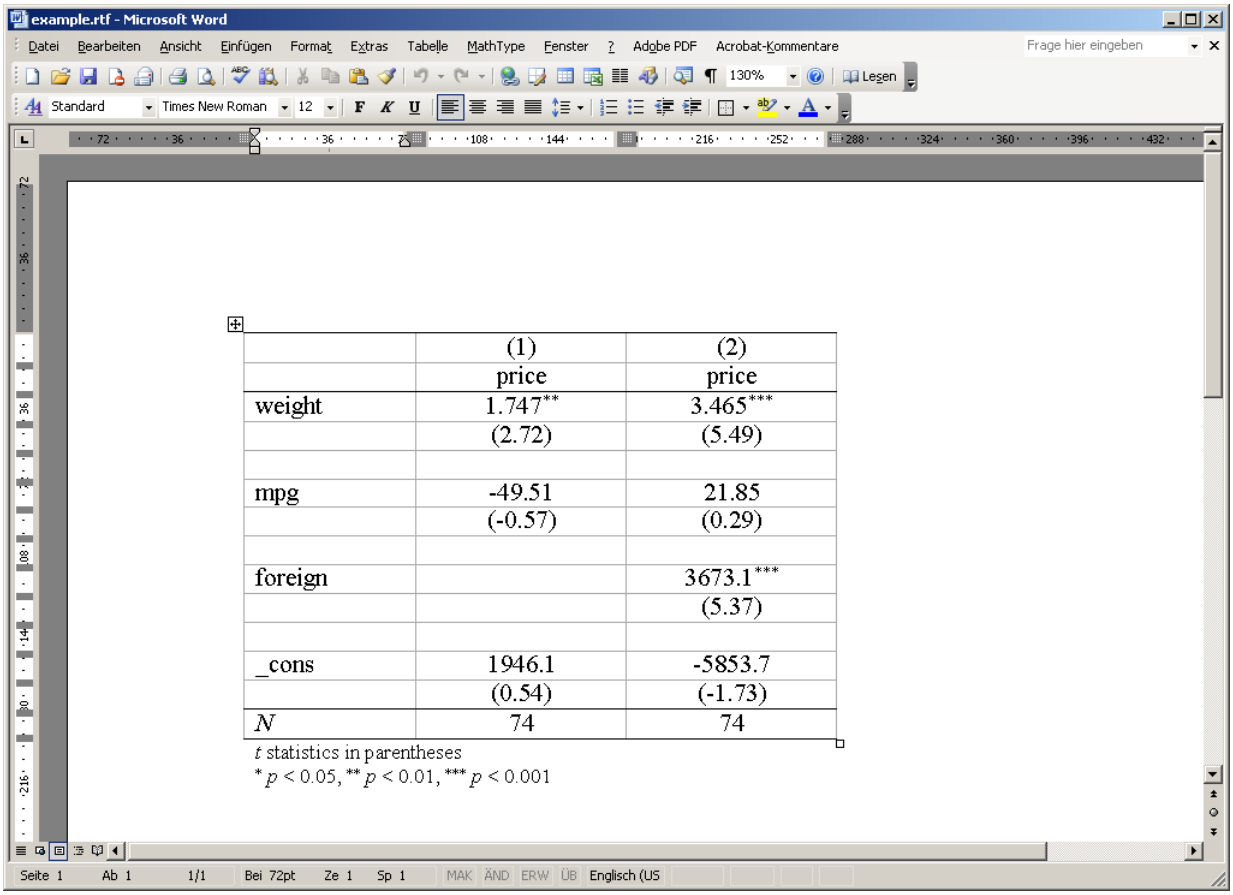
Appending is possible. Furthermore, use **varwidth(#)** and **modelwidth(#)** to change column widths:

```
esttab using example.rtf, append wide label modelwidth(8)
<run>
```

Including RTF literals:

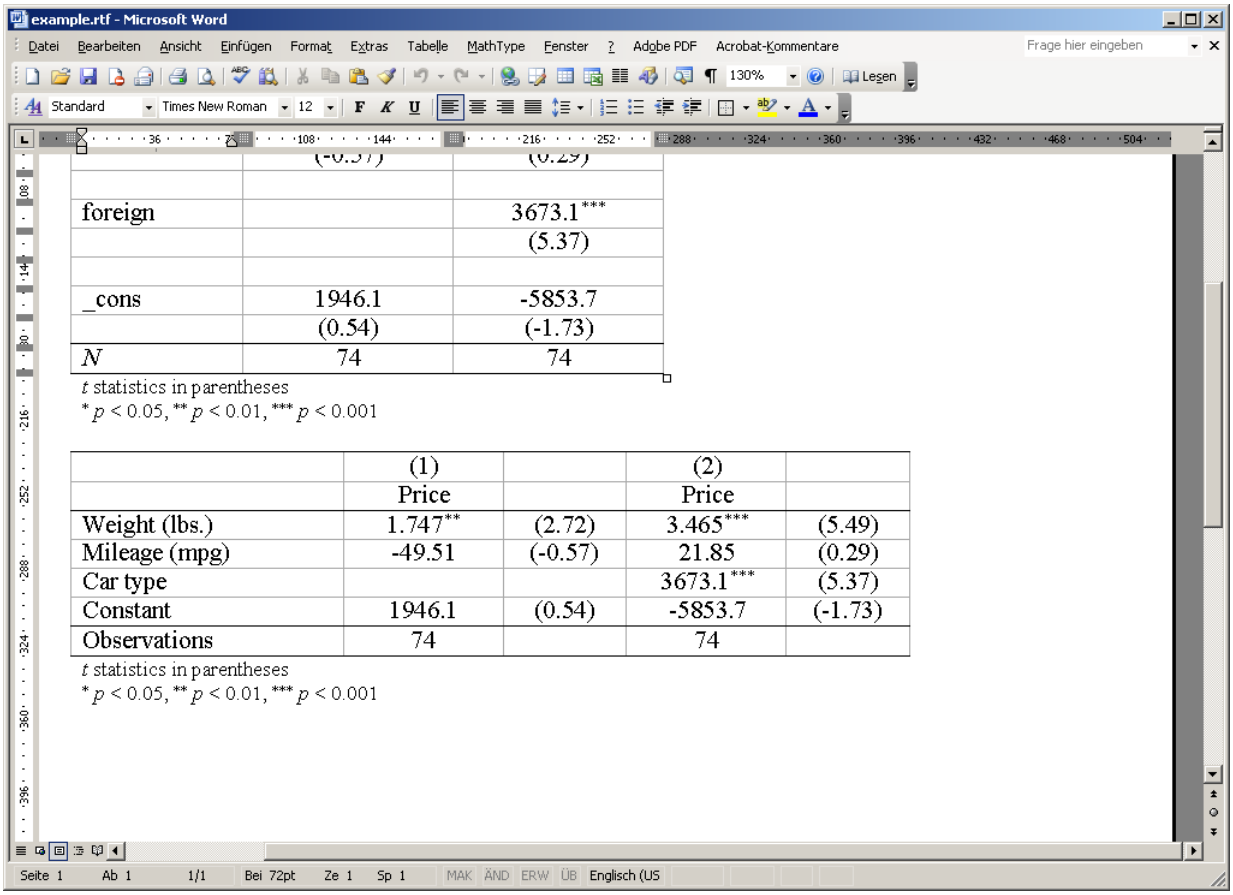
```
esttab using example.rtf, replace                    ///
    title({\b Table 1: This is a bold title})
<run>

esttab using example.rtf, replace                    ///
    cells(b(fmt(a3)) t(par(\i( ))))
<run>
```




| | (1) | (2) |
|---|---|---|
| | price | price |
| weight | 1.747** | 3.465*** |
| | (2.72) | (5.49) |
| | | |
| mpg | -49.51 | 21.85 |
| | (-0.57) | (0.29) |
| | | |
| foreign | | 3673.1*** |
| | | (5.37) |
| | | |
| _cons | 1946.1 | -5853.7 |
| | (0.54) | (-1.73) |
| *N* | 74 | 74 |

*t* statistics in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$




| | | |
|---|---|---|
| | (-0.57) | (0.29) |
| foreign | | 3673.1*** |
| | | (5.37) |
| | | |
| _cons | 1946.1 | -5853.7 |
| | (0.54) | (-1.73) |
| *N* | 74 | 74 |

*t* statistics in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

| | (1) | | (2) | |
|---|---|---|---|---|
| | Price | | Price | |
| Weight (lbs.) | 1.747** | (2.72) | 3.465*** | (5.49) |
| Mileage (mpg) | -49.51 | (-0.57) | 21.85 | (0.29) |
| Car type | | | 3673.1*** | (5.37) |
| Constant | 1946.1 | (0.54) | -5853.7 | (-1.73) |
| Observations | 74 | | 74 | |

*t* statistics in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

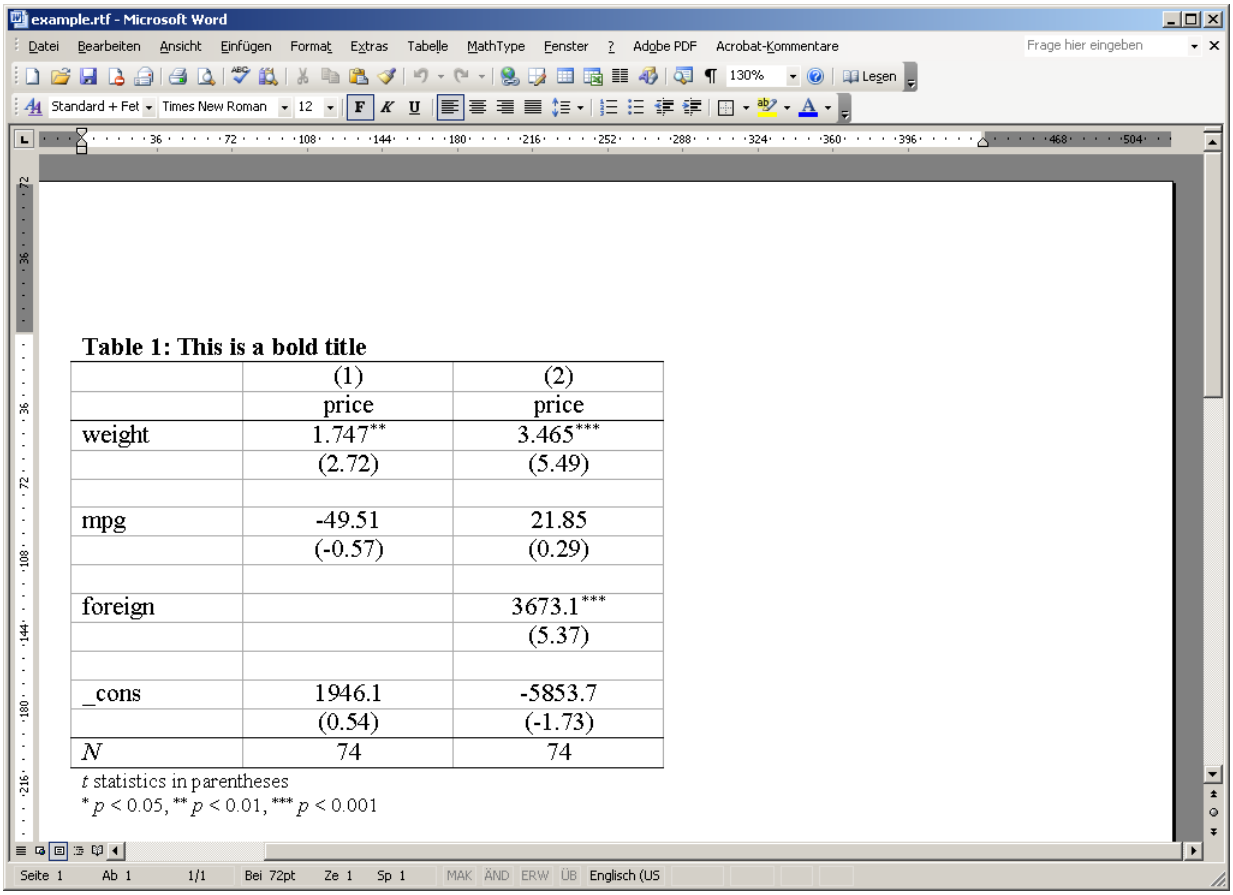
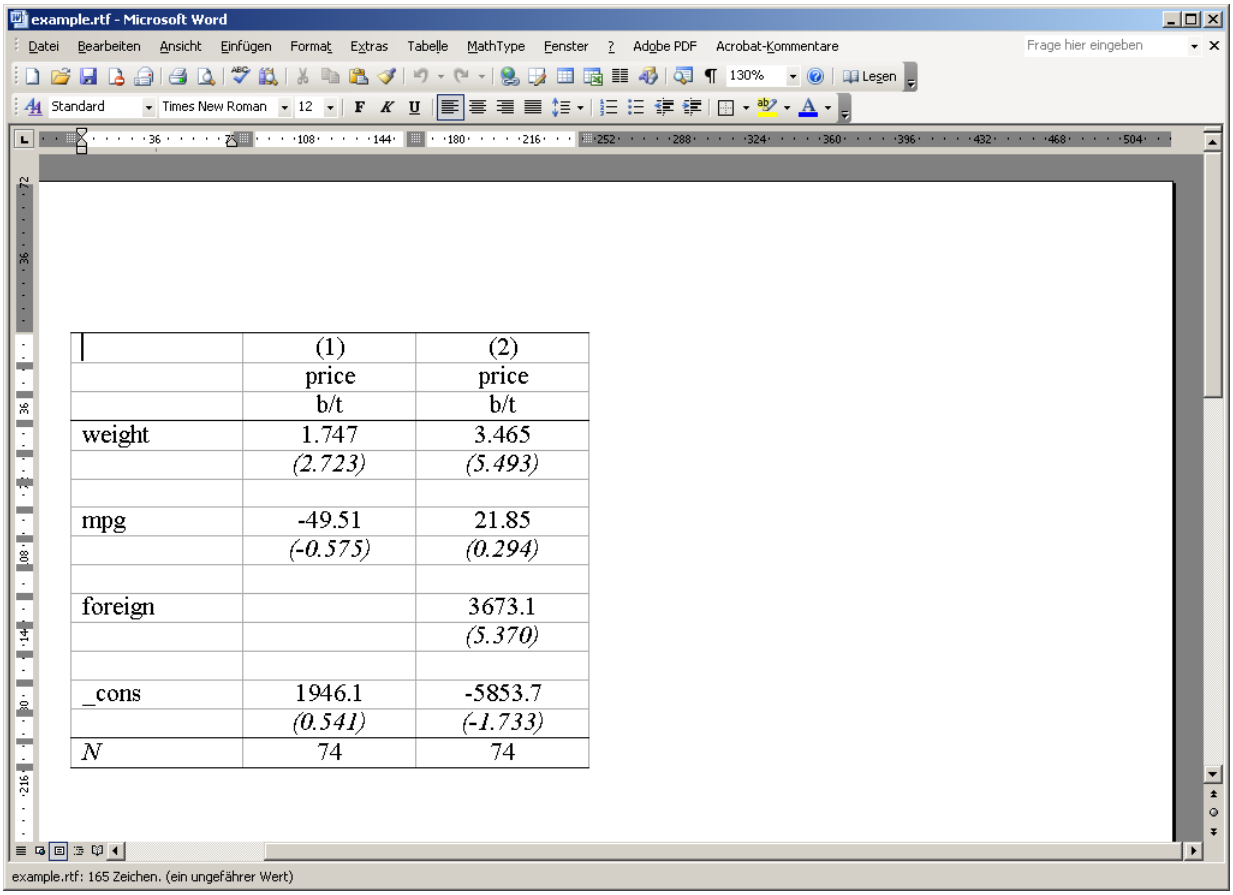


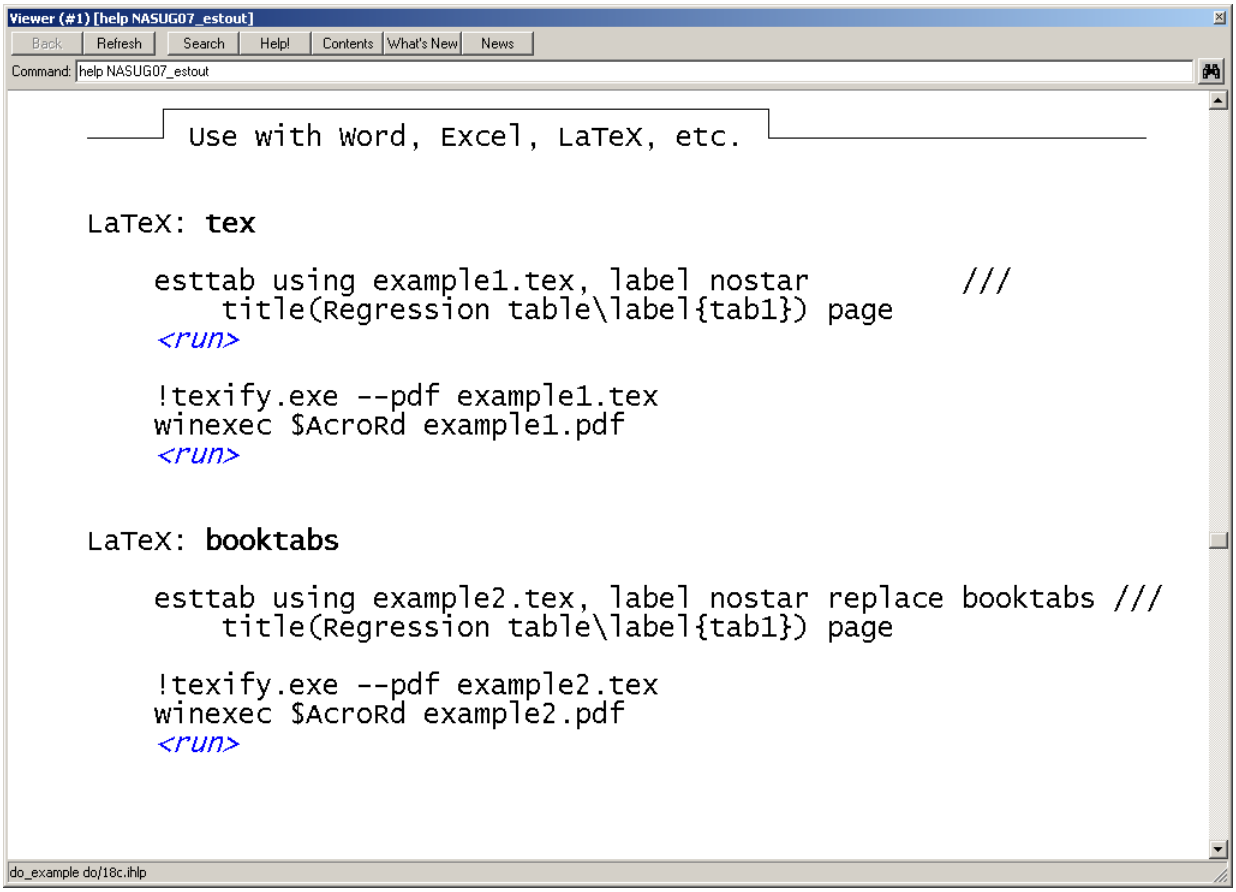

**Table 1: This is a bold title**

| | (1) | (2) |
|---|---|---|
| | price | price |
| weight | 1.747** | 3.465*** |
| | (2.72) | (5.49) |
| | | |
| mpg | -49.51 | 21.85 |
| | (-0.57) | (0.29) |
| | | |
| foreign | | 3673.1*** |
| | | (5.37) |
| | | |
| _cons | 1946.1 | -5853.7 |
| | (0.54) | (-1.73) |
| *N* | 74 | 74 |

*t* statistics in parentheses
* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$




| | (1) | (2) |
|---|---|---|
| | price | price |
| | b/t | b/t |
| weight | 1.747 | 3.465 |
| | *(2.723)* | *(5.493)* |
| | | |
| mpg | -49.51 | 21.85 |
| | *(-0.575)* | *(0.294)* |
| | | |
| foreign | | 3673.1 |
| | | *(5.370)* |
| | | |
| _cons | 1946.1 | -5853.7 |
| | *(0.541)* | *(-1.733)* |
| *N* | 74 | 74 |



example1.tex - Editor

Datei Bearbeiten Format Ansicht ?

```
% 16 Aug 2007 01:12:33
\documentclass{article}
\begin{document}

\begin{table}[htbp]\centering
\caption{Regression table\label{tab1}}
\begin{tabular}{l*{2}{c}}
\hline\hline
                    &\multicolumn{1}{c}{(1)}&\multicolumn{1}{c}{(2)}\\
                    &\multicolumn{1}{c}{Price}&\multicolumn{1}{c}{Price}\\
\hline
Weight (lbs.)       &       1.747&       3.465\\
                    &      (2.72)&      (5.49)\\
[1em]
Mileage (mpg)       &      -49.51&       21.85\\
                    &     (-0.57)&      (0.29)\\
[1em]
Car type            &            &      3673.1\\
                    &            &      (5.37)\\
[1em]
Constant            &      1946.1&     -5853.7\\
                    &      (0.54)&     (-1.73)\\
\hline
Observations        &          74&          74\\
\hline\hline
\multicolumn{3}{l}{\footnotesize \textit{t} statistics in parentheses}\\
\end{tabular}
\end{table}

\end{document}
```

Adobe Reader - [example1.pdf]

Datei Bearbeiten Anzeige Dokument Werkzeuge Fenster Hilfe

Seiten Anlagen Kommentare

Table 1: Regression table

| | (1) Price | (2) Price |
|---|---|---|
| Weight (lbs.) | 1.747 | 3.465 |
| | (2.72) | (5.49) |
| Mileage (mpg) | -49.51 | 21.85 |
| | (-0.57) | (0.29) |
| Car type | | 3673.1 |
| | | (5.37) |
| Constant | 1946.1 | -5853.7 |
| | (0.54) | (-1.73) |
| Observations | 74 | 74 |

*t* statistics in parentheses

210 x 297 mm 1 von 1

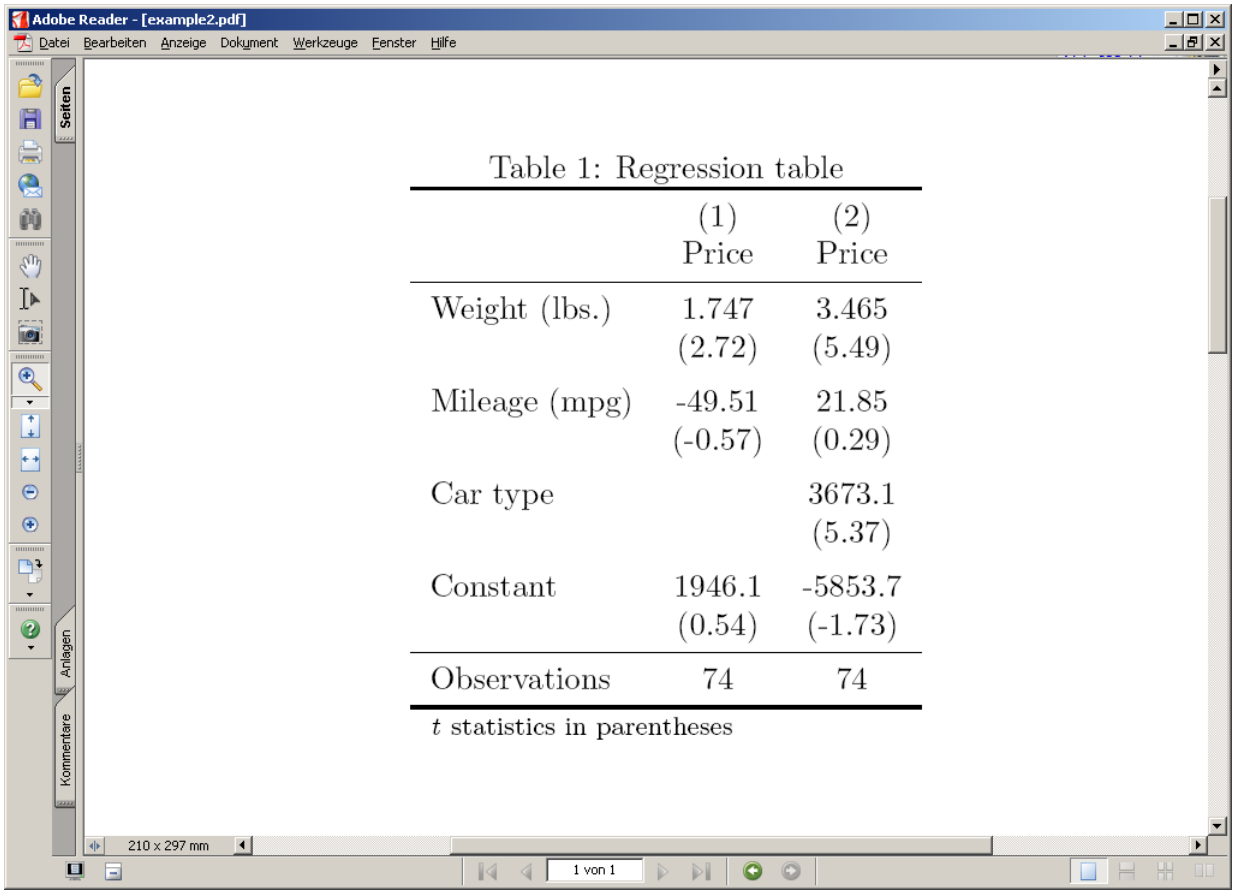
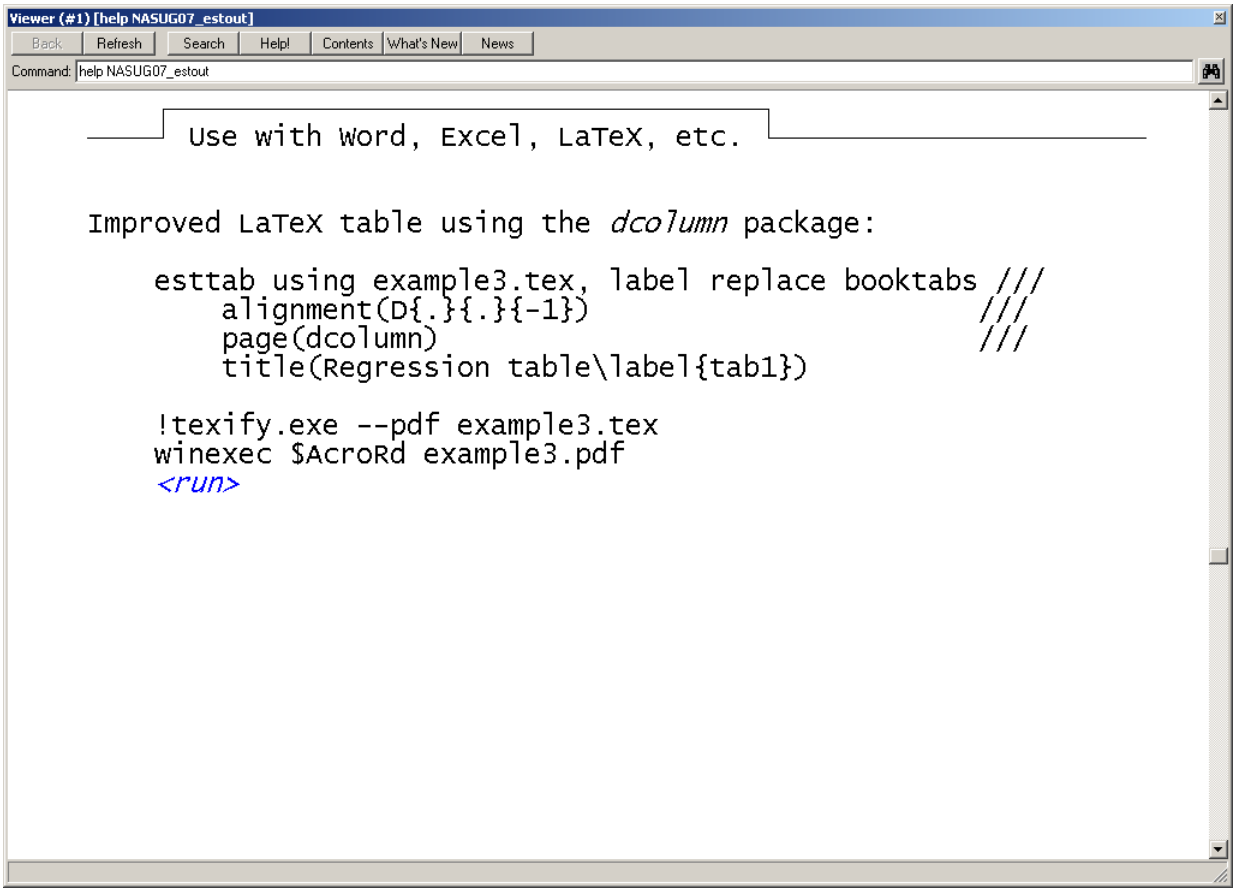



Table 1: Regression table

| | (1) Price | (2) Price |
|---|---|---|
| Weight (lbs.) | 1.747 | 3.465 |
| | (2.72) | (5.49) |
| Mileage (mpg) | -49.51 | 21.85 |
| | (-0.57) | (0.29) |
| Car type | | 3673.1 |
| | | (5.37) |
| Constant | 1946.1 | -5853.7 |
| | (0.54) | (-1.73) |
| Observations | 74 | 74 |

*t* statistics in parentheses



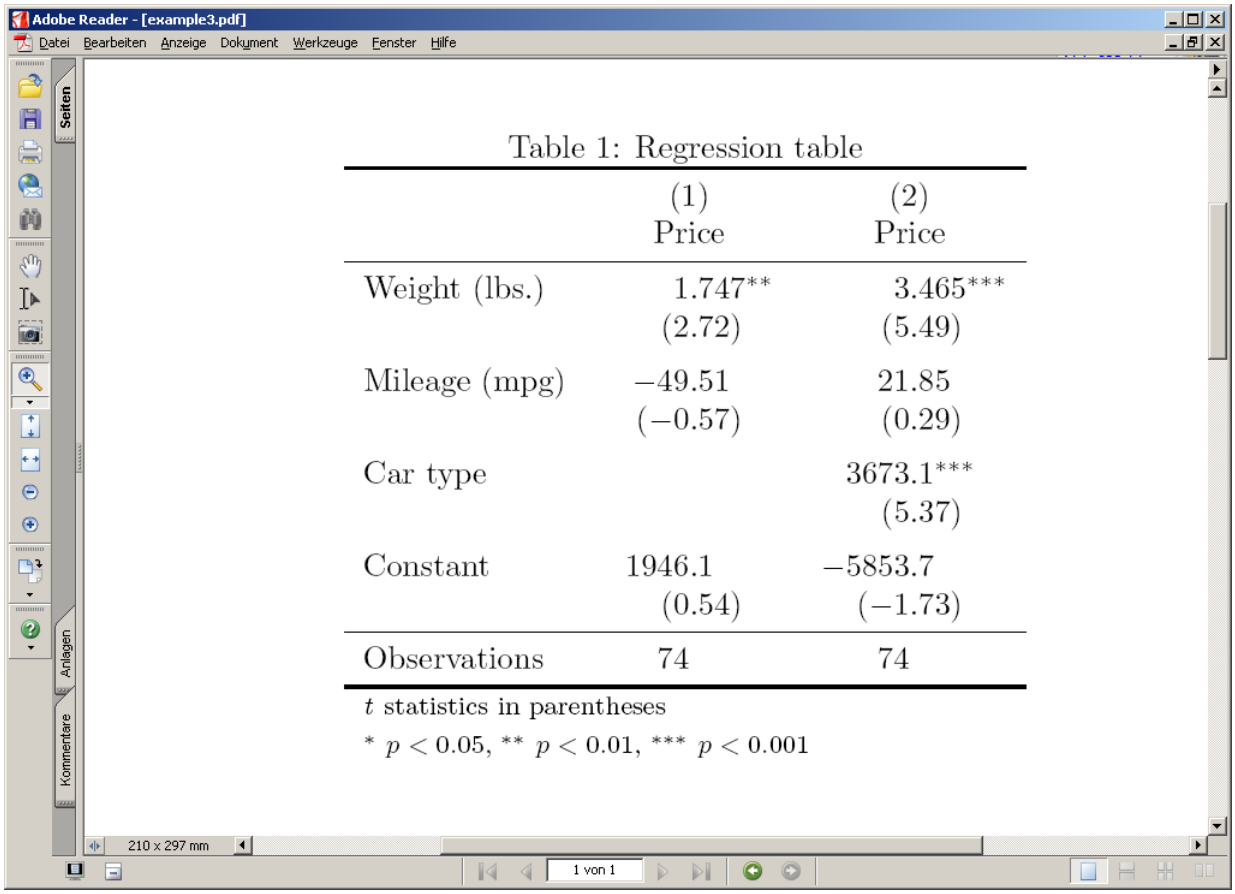
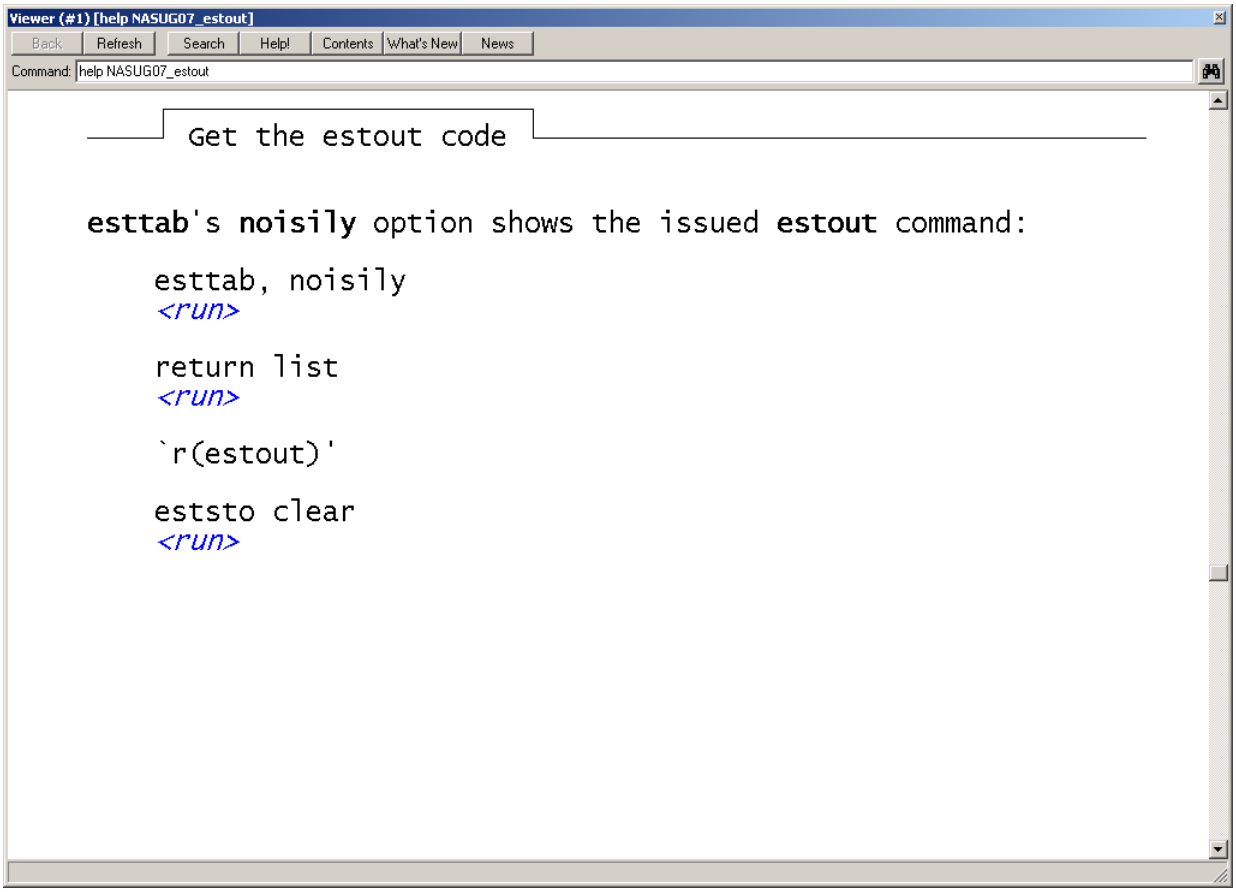


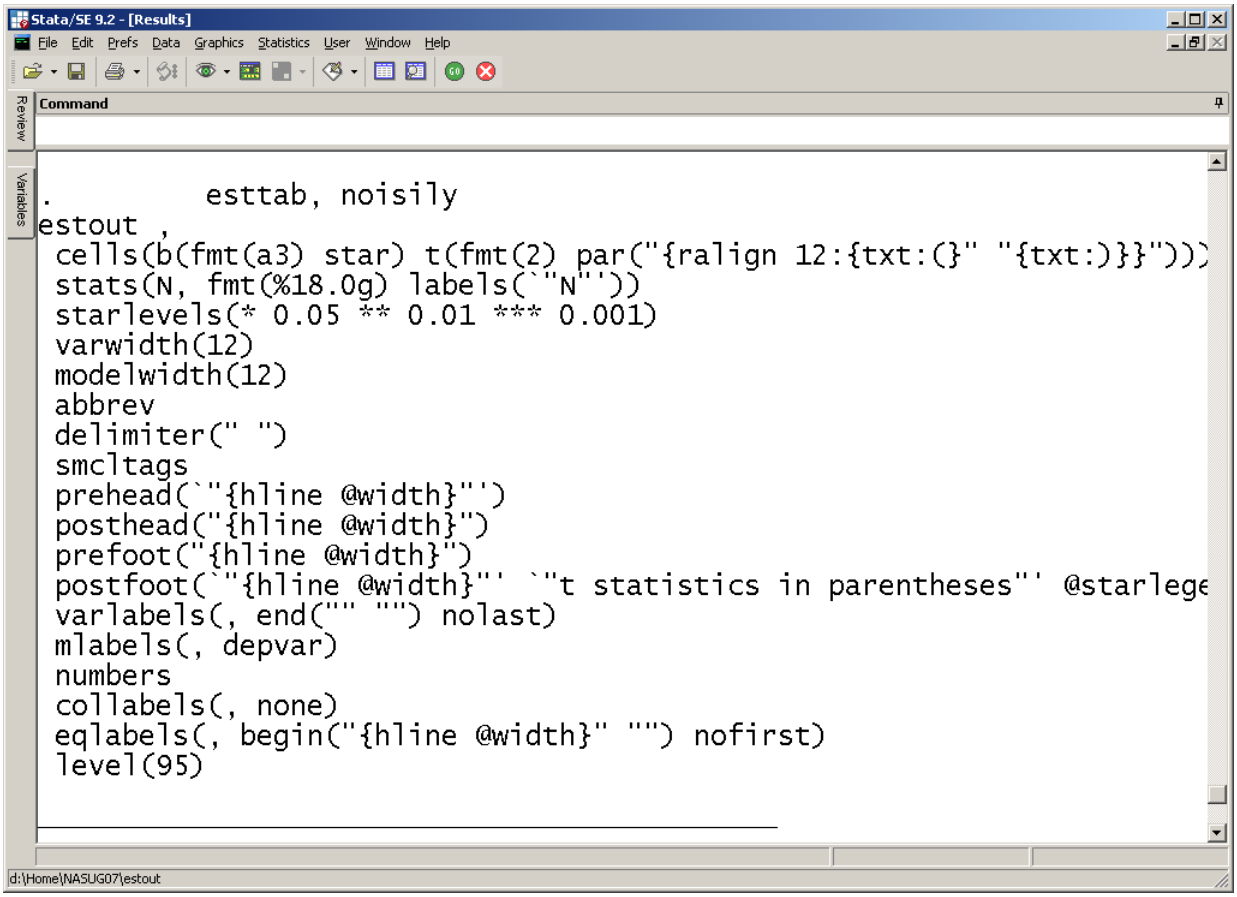

Table 1: Regression table

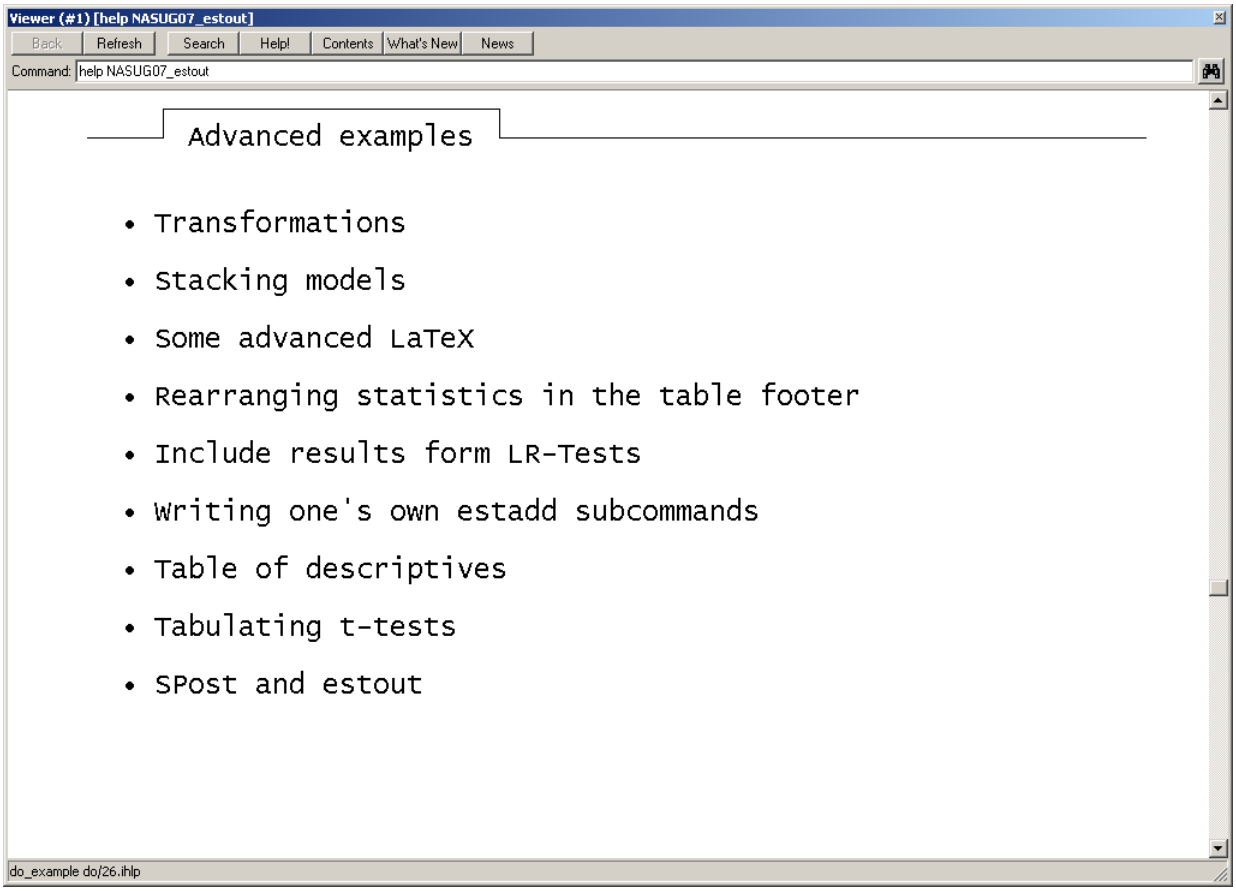
| | (1) Price | (2) Price |
|---|---|---|
| Weight (lbs.) | 1.747** | 3.465*** |
| | (2.72) | (5.49) |
| Mileage (mpg) | −49.51 | 21.85 |
| | (−0.57) | (0.29) |
| Car type | | 3673.1*** |
| | | (5.37) |
| Constant | 1946.1 | −5853.7 |
| | (0.54) | (−1.73) |
| Observations | 74 | 74 |

$t$ statistics in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$




Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Review
Command
Variables
. esttab, noisily
estout ,
cells(b(fmt(a3) star) t(fmt(2) par("{ralign 12:{txt:(}" "{txt:)}}")))
stats(N, fmt(%18.0g) labels(`"N"'))
starlevels(* 0.05 ** 0.01 *** 0.001)
varwidth(12)
modelwidth(12)
abbrev
delimiter(" ")
smcltags
prehead(`"{hline @width}"')
posthead("{hline @width}")
prefoot("{hline @width}")
postfoot(`"{hline @width}"' `"t statistics in parentheses"' @starlege
varlabels(, end("" "") nolast)
mlabels(, depvar)
numbers
collabels(, none)
eqlabels(, begin("{hline @width}" "") nofirst)
level(95)
d:\Home\NASUG07\estout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Command: help NASUG07_estout
Advanced examples
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• Stacking models
• Some advanced LaTeX
• Rearranging statistics in the table footer
• Include results form LR-Tests
• Writing one's own estadd subcommands
• Table of descriptives
• Tabulating t-tests
• SPost and estout
do_example do/26.ihlp

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Command: help NASUG07_estout

## Transformations

Example 1: Exponentiation (odds ratio, hazard ratio, incidence-rate ratio, relative risk ratio)

```
logistic foreign weight price
eststo
eststo

esttab, eform(0 1)
eststo clear
<run>
```

Example 2: **transform()** and **xtmixed**

```
Syntax: transform(fx dfx)
        transform(coefs fx dfx [ ... [coefs] fx dfx ])

use pig, clear
xtmixed weight week || _all: R.id || _all: R.week

esttab, transform(ln*: exp(@) exp(@))
<run>
```

Stata/SE 9.2 - [Results]

File Edit Prefs Data Graphics Statistics User Window Help

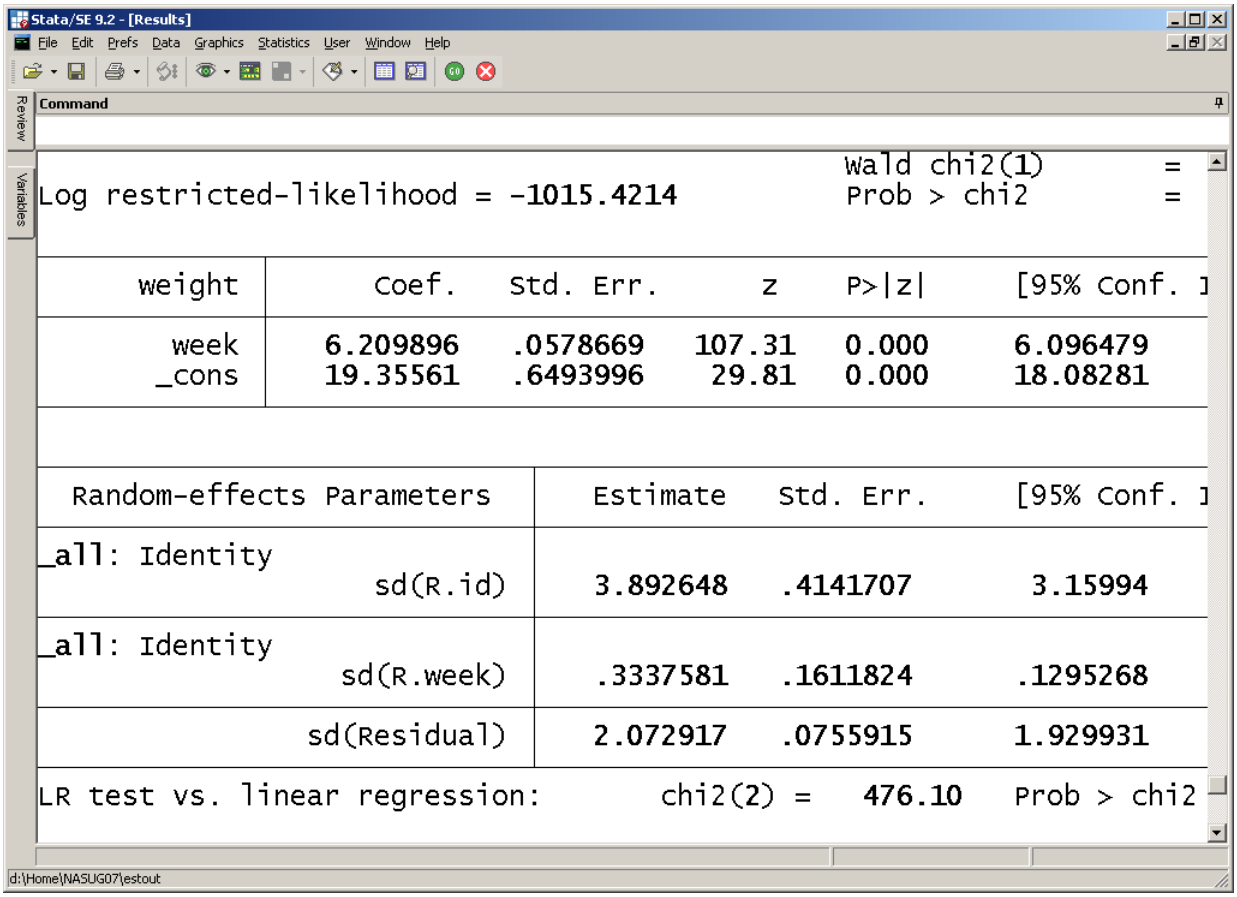
Review | Variables | Command

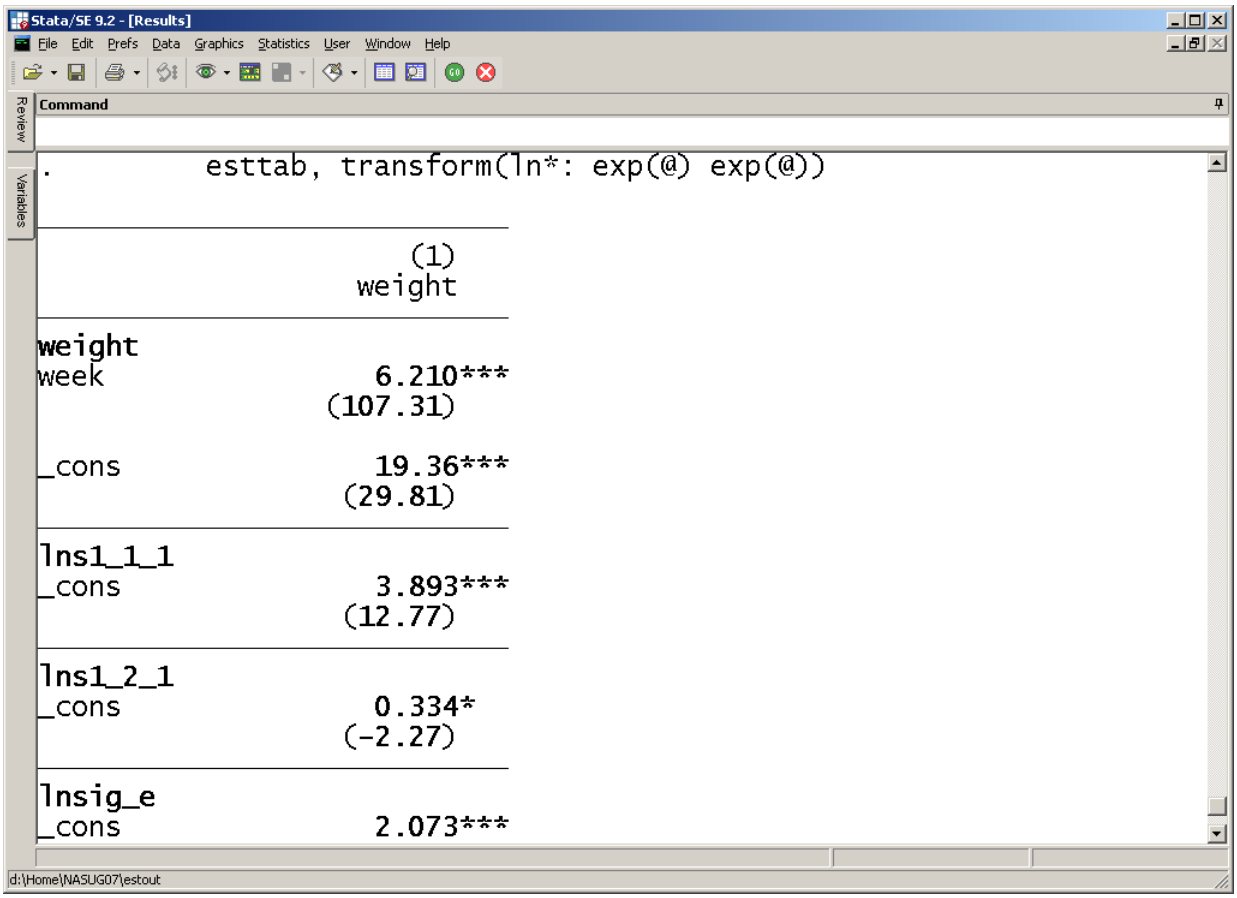
```
(est2 stored)

.
.         esttab, eform(0 1)
```

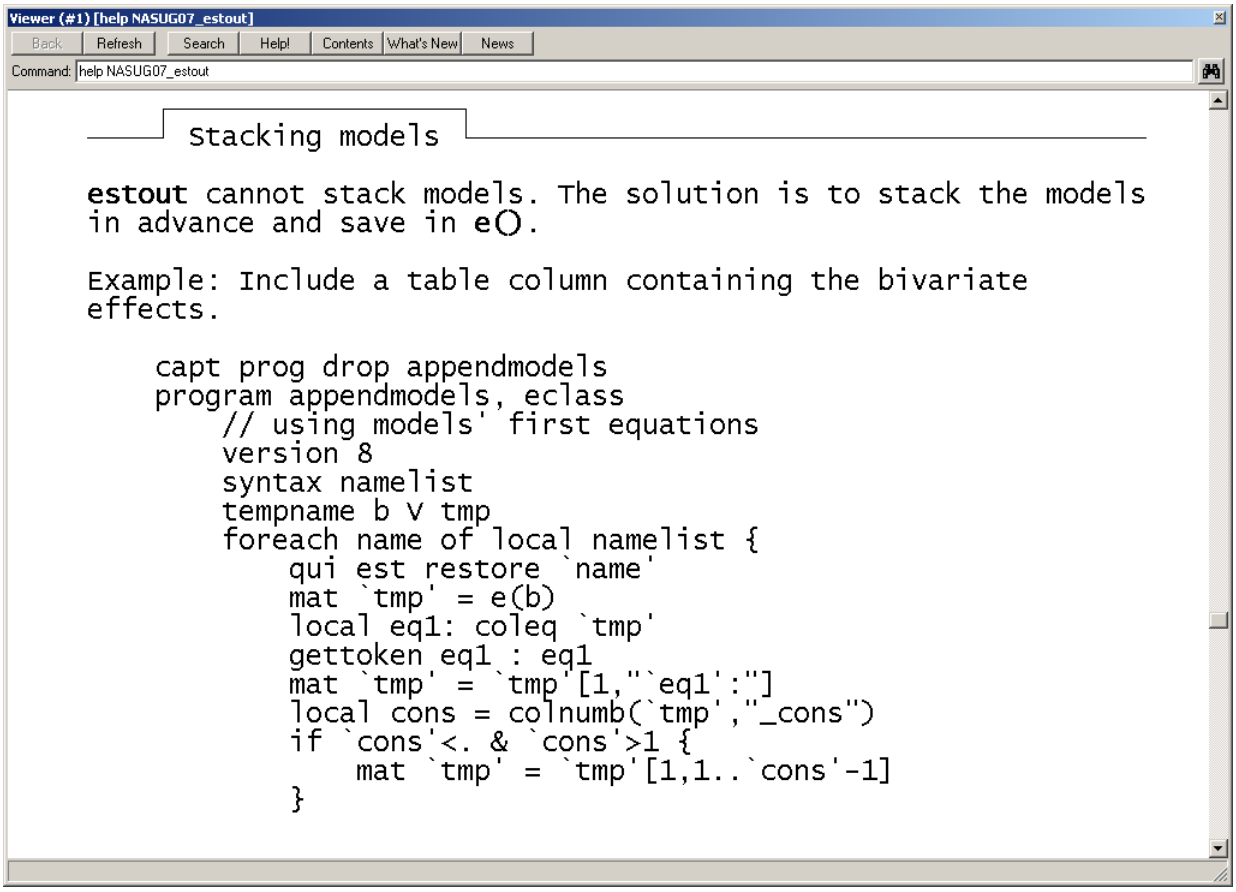
| | (1) foreign | (2) foreign |
|---|---|---|
| weight | -0.00588*** | 0.994*** |
| | (-3.46) | (-3.46) |
| price | 0.000930** | 1.001** |
| | (3.10) | (3.10) |
| _cons | 9.000*** | 8106.9*** |
| | (3.43) | (3.43) |
| N | 74 | 74 |

t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001

d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
Log restricted-likelihood = -1015.4214
Wald chi2(1) =
Prob > chi2 =
weight | Coef. Std. Err. z P>|z| [95% Conf. I
week 6.209896 .0578669 107.31 0.000 6.096479
_cons 19.35561 .6493996 29.81 0.000 18.08281
Random-effects Parameters | Estimate Std. Err. [95% Conf. I
_all: Identity sd(R.id) 3.892648 .4141707 3.15994
_all: Identity sd(R.week) .3337581 .1611824 .1295268
sd(Residual) 2.072917 .0755915 1.929931
LR test vs. linear regression: chi2(2) = 476.10 Prob > chi2
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
. esttab, transform(ln*: exp(@) exp(@))
(1)
weight
weight
week 6.210***
(107.31)
_cons 19.36***
(29.81)
lns1_1_1
_cons 3.893***
(12.77)
lns1_2_1
_cons 0.334*
(-2.27)
lnsig_e
_cons 2.073***
d:\Home\NASUG07\estout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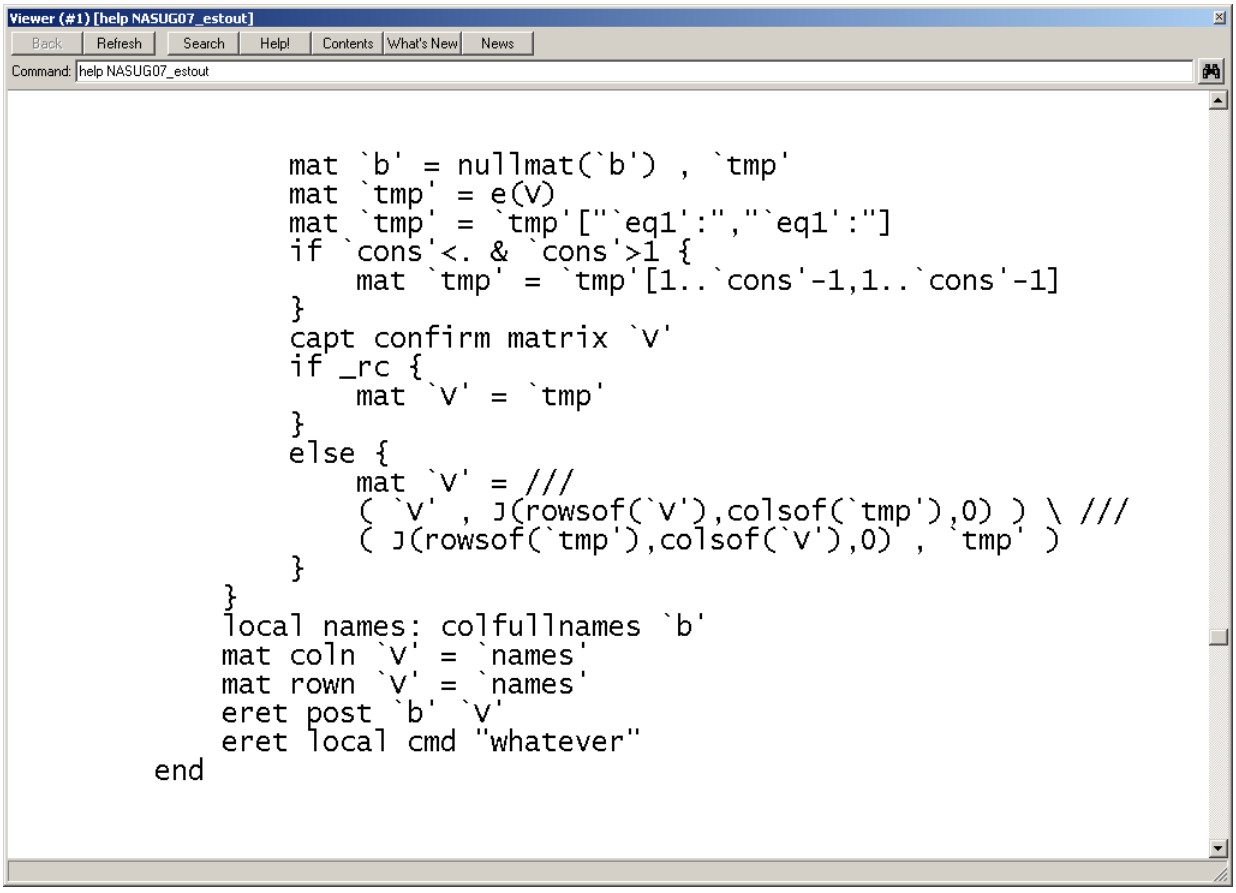
Command: help NASUG07_estout
Stacking models
estout cannot stack models. The solution is to stack the models in advance and save in e().
Example: Include a table column containing the bivariate effects.
capt prog drop appendmodels
program appendmodels, eclass
// using models' first equations
version 8
syntax namelist
tempname b V tmp
foreach name of local namelist {
qui est restore `name'
mat `tmp' = e(b)
local eq1: coleq `tmp'
gettoken eq1 : eq1
mat `tmp' = `tmp'[1,"`eq1':"]
local cons = colnumb(`tmp',"_cons")
if `cons'<. & `cons'>1 {
mat `tmp' = `tmp'[1,1..`cons'-1]
}


Viewer (#1) [help NASUG07_estout]
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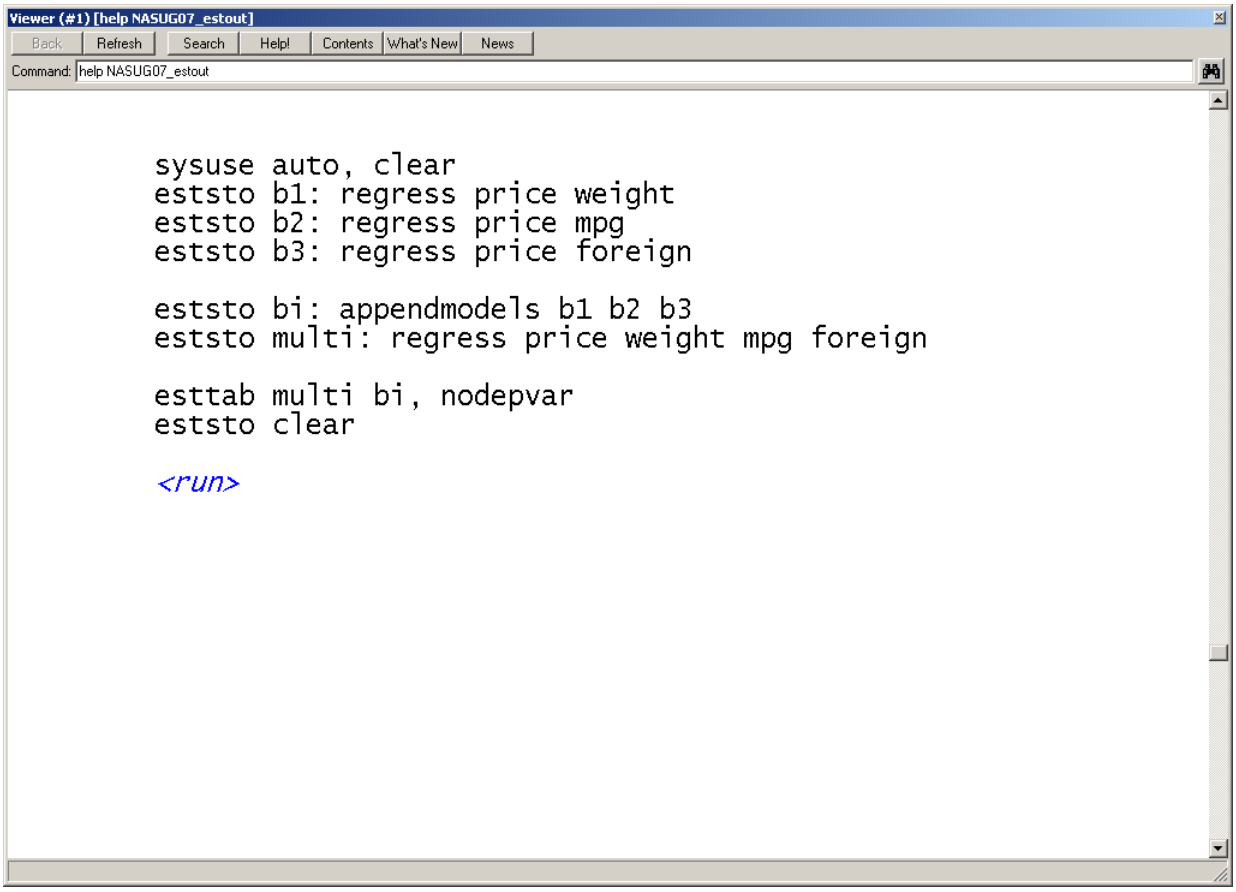
Command: help NASUG07_estout
mat `b' = nullmat(`b') , `tmp'
mat `tmp' = e(V)
mat `tmp' = `tmp'["`eq1':","`eq1':"]
if `cons'<. & `cons'>1 {
mat `tmp' = `tmp'[1..`cons'-1,1..`cons'-1]
}
capt confirm matrix `V'
if _rc {
mat `V' = `tmp'
}
else {
mat `V' = ///
( `V' , J(rowsof(`V'),colsof(`tmp'),0) ) \ ///
( J(rowsof(`tmp'),colsof(`V'),0) , `tmp' )
}
}
local names: colfullnames `b'
mat coln `V' = `names'
mat rown `V' = `names'
eret post `b' `V'
eret local cmd "whatever"
end


Viewer (#1) [help NASUG07_estout]
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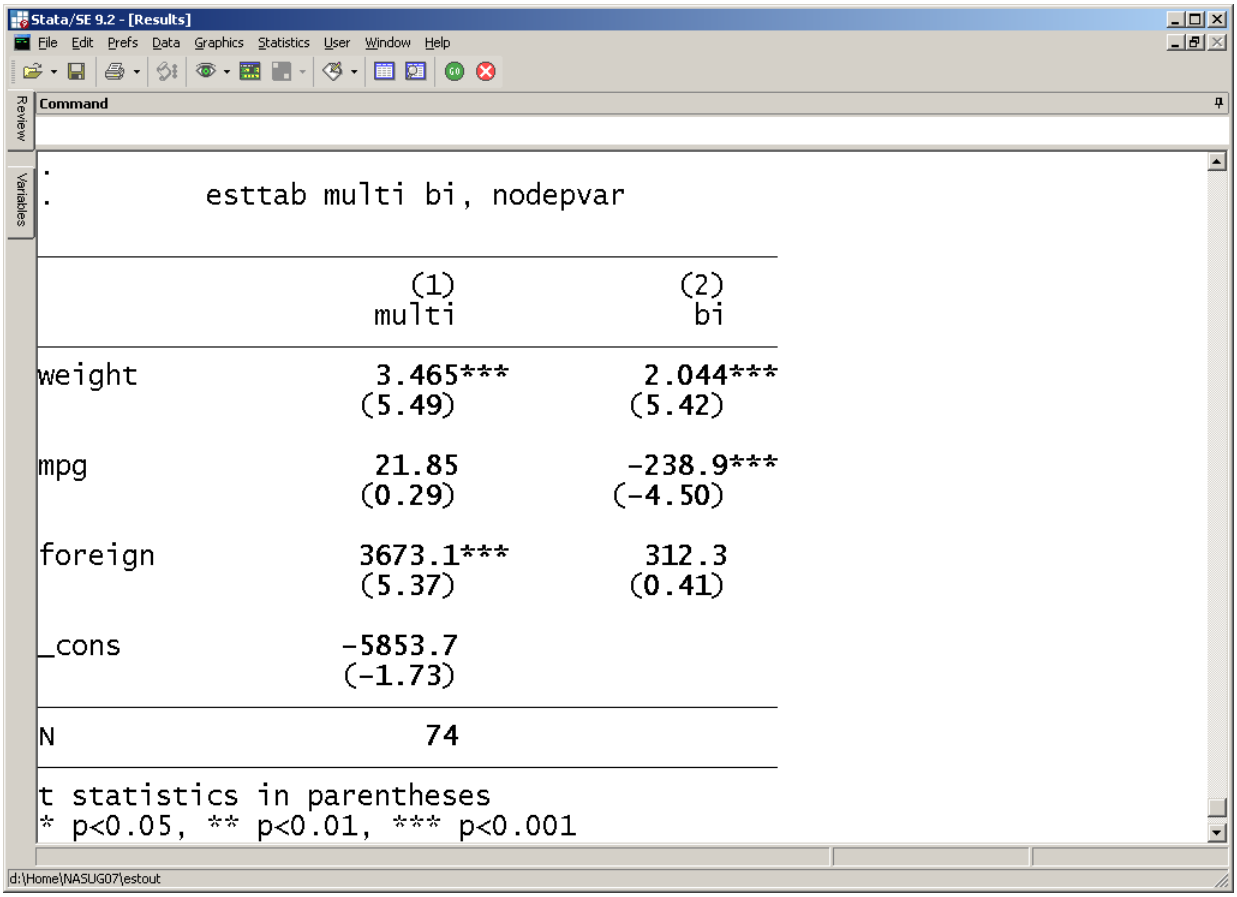
Command: help NASUG07_estout
sysuse auto, clear
eststo b1: regress price weight
eststo b2: regress price mpg
eststo b3: regress price foreign
eststo bi: appendmodels b1 b2 b3
eststo multi: regress price weight mpg foreign
esttab multi bi, nodepvar
eststo clear
<run>


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Review
Variables
Command
. esttab multi bi, nodepvar
(1) multi
(2) bi
weight 3.465*** 2.044***
(5.49) (5.42)
mpg 21.85 -238.9***
(0.29) (-4.50)
foreign 3673.1*** 312.3
(5.37) (0.41)
_cons -5853.7
(-1.73)
N 74
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
d:\Home\NASUG07\estout

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Some advanced LaTeX

Example: Arrange models in groups.

```
sysuse auto

eststo: reg weight mpg
eststo: reg weight mpg foreign

eststo: reg price weight mpg
eststo: reg price weight mpg foreign

esttab using example4.tex, booktabs replace label   ///
    mgroups(A B, pattern(1 0 1 0)                   ///
        prefix(\multicolumn{@span}{c}{) suffix(})   ///
        span erepeat(\cmidrule(lr){@span}))         ///
    alignment(D{.}{.}{-1}) page(dcolumn) nonumber
eststo clear

!texify.exe --pdf example4.tex
winexec $AcroRd example4.pdf

<run>
```

Adobe Reader - [example4.pdf]

Datei Bearbeiten Anzeige Dokument Werkzeuge Fenster Hilfe

Seiten | Anlagen | Kommentare

| | A | | B | |
|---|---|---|---|---|
| | Weight (lbs.) | Weight (lbs.) | Price | Price |
| Mileage (mpg) | −108.4*** | −91.22*** | −49.51 | 21.85 |
| | (−11.60) | (−10.34) | (−0.57) | (0.29) |
| Car type | | −550.1*** | | 3673.1*** |
| | | (−4.96) | | (5.37) |
| Weight (lbs.) | | | 1.747** | 3.465*** |
| | | | (2.72) | (5.49) |
| Constant | 5328.8*** | 5125.7*** | 1946.1 | −5853.7 |
| | (25.85) | (27.93) | (0.54) | (−1.73) |
| Observations | 74 | 74 | 74 | 74 |

$t$ statistics in parentheses

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

210 x 297 mm

1 von 1

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Rearranging statistics in the table footer

Example 1:

```
    regress price weight foreign

    estout, stats(F p N, layout("@ @" @) fmt(a3 3 a3)     ///
                  labels("F statistic" "Observations"))  ///
        cells("b(fmt(a3)) p(fmt(3))") label style(smcl)

    eststo clear
    <run>
```

Example 2:

```
    eststo: logit foreign weight mpg
    eststo: logit foreign weight mpg turn displ

    esttab, stats(chi2 df_m r2_p N, layout(`""@ (@)""' @ @))

    eststo clear
    <run>
```

Stata/SE 9.2 - [Results]

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Review | Variables | Command

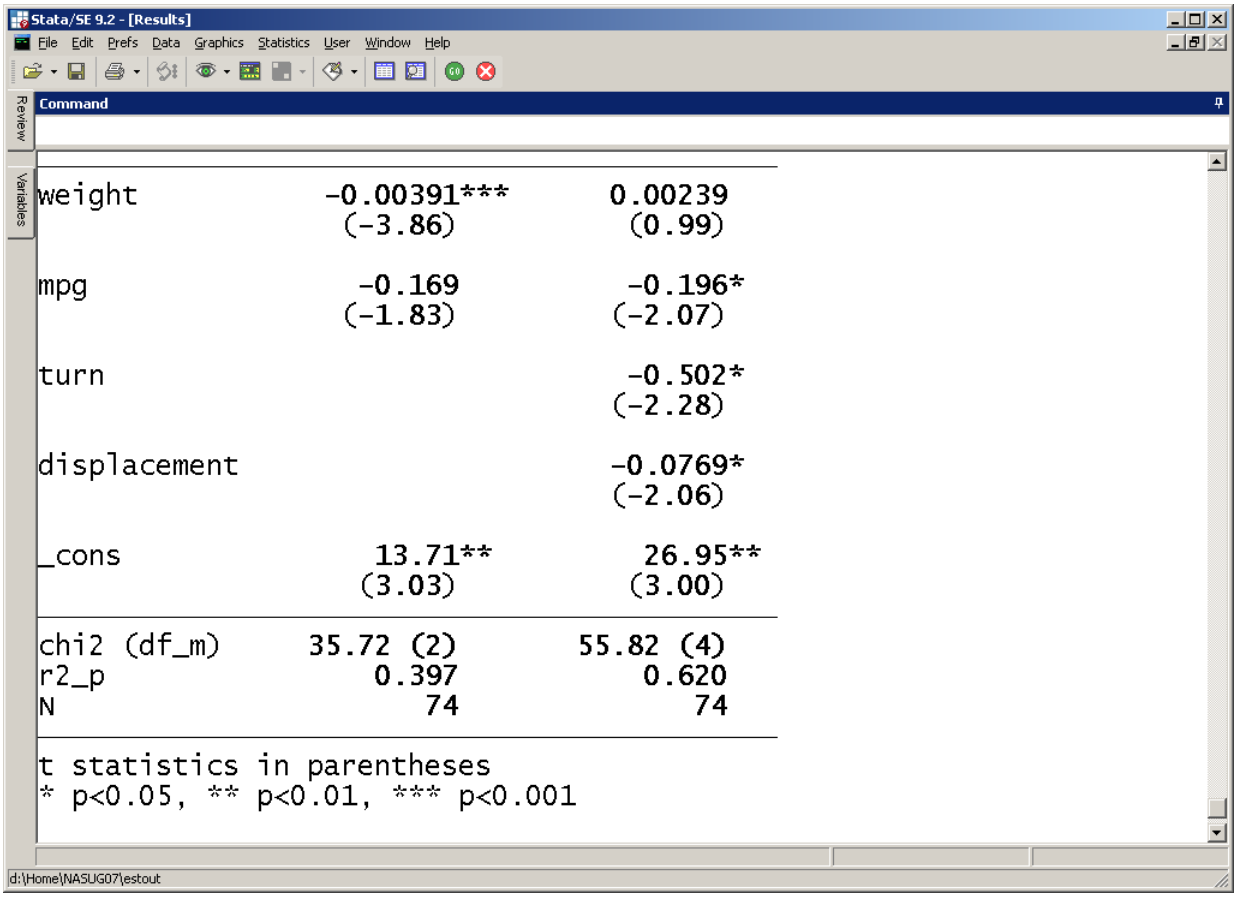
```
. 
.         estout, stats(F p N, layout("@ @" @) fmt(a3 3 a3)     ///
>                       labels("F statistic" "Observations"))  ///
>             cells("b(fmt(a3)) p(fmt(3))") label style(smcl)
```

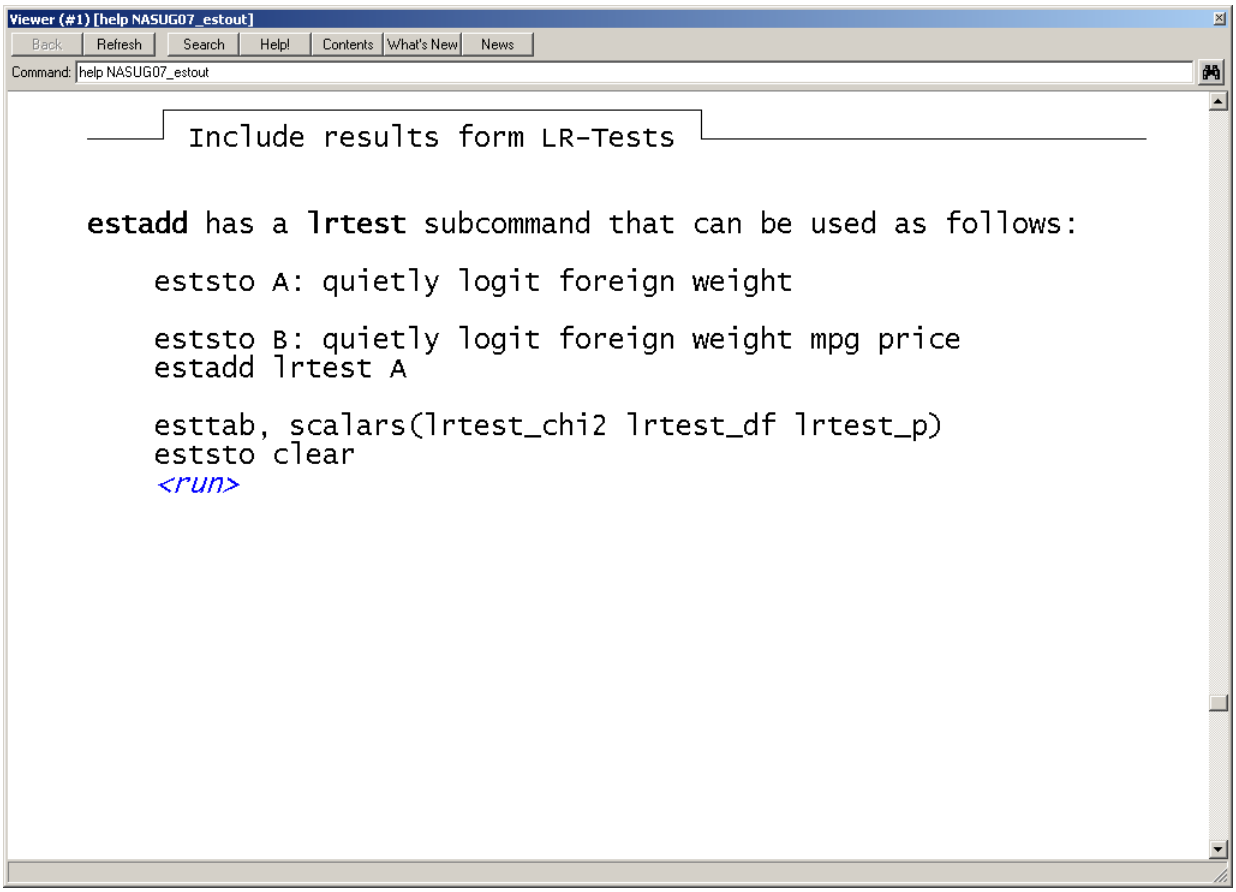
| | b | p |
|---|---|---|
| Weight (lbs.) | 3.321 | 0.000 |
| Car type | 3637.0 | 0.000 |
| _cons | -4942.8 | 0.000 |
| F statistic | 35.35 | 0.000 |
| Observations | 74 | |

```
. 
.         eststo clear

. 
end of do-file
--more--
```

d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
weight -0.00391*** 0.00239
(-3.86) (0.99)
mpg -0.169 -0.196*
(-1.83) (-2.07)
turn -0.502*
(-2.28)
displacement -0.0769*
(-2.06)
_cons 13.71** 26.95**
(3.03) (3.00)
chi2 (df_m) 35.72 (2) 55.82 (4)
r2_p 0.397 0.620
N 74 74
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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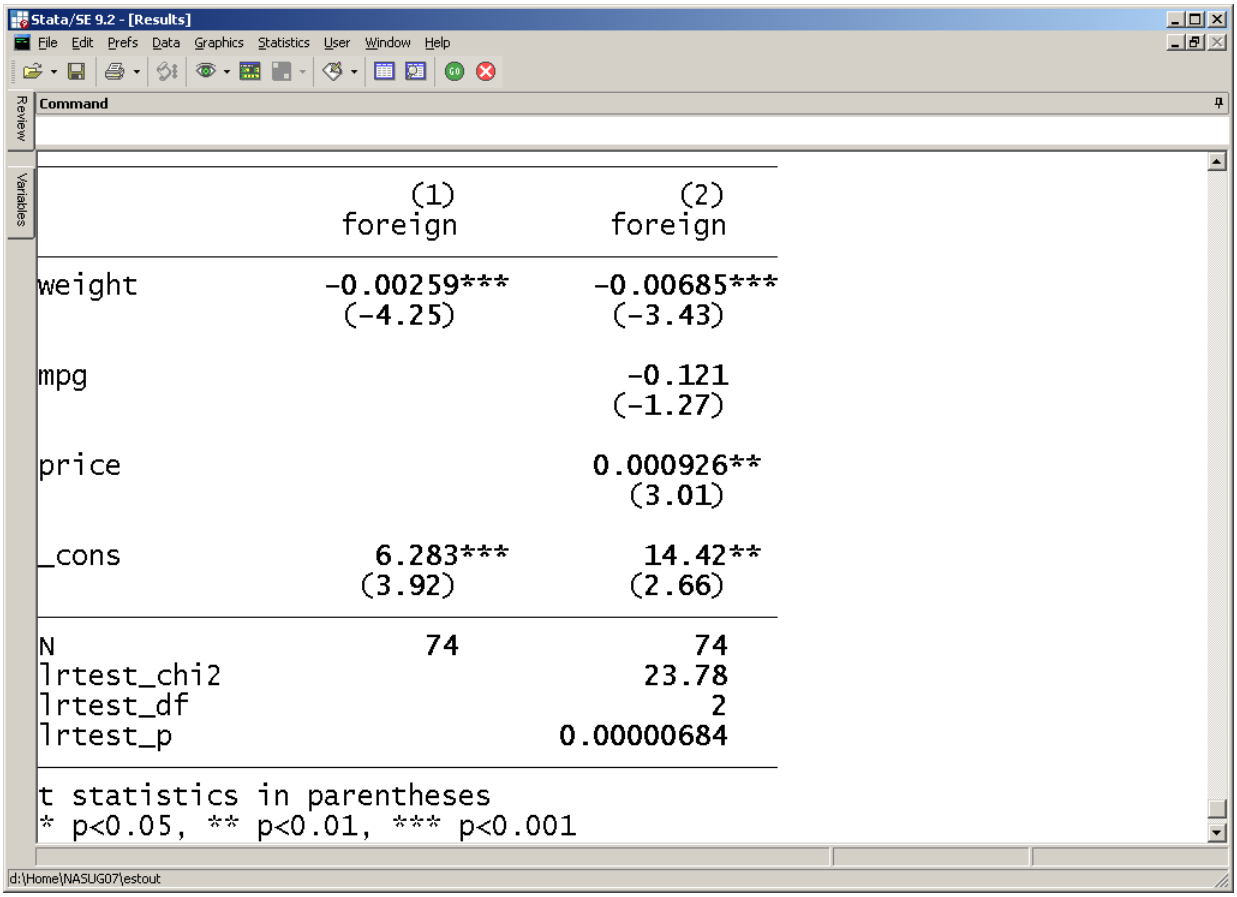
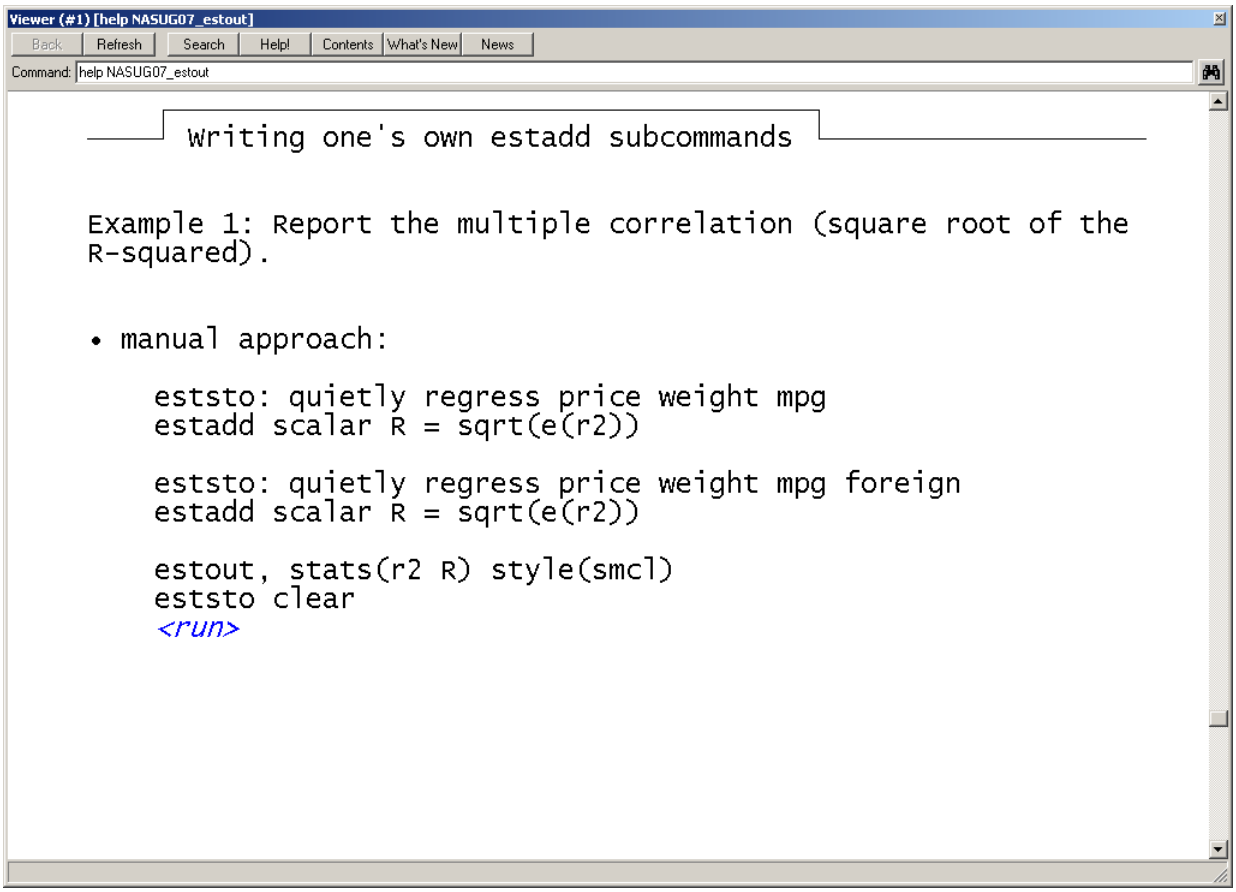
Command: help NASUG07_estout
Include results form LR-Tests
estadd has a lrtest subcommand that can be used as follows:
eststo A: quietly logit foreign weight
eststo B: quietly logit foreign weight mpg price
estadd lrtest A
esttab, scalars(lrtest_chi2 lrtest_df lrtest_p)
eststo clear
<run>


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
(1) foreign
(2) foreign
weight -0.00259*** (-4.25)
mpg -0.121 (-1.27)
price 0.000926** (3.01)
_cons 6.283*** (3.92) 14.42** (2.66)
N 74 74
lrtest_chi2 23.78
lrtest_df 2
lrtest_p 0.00000684
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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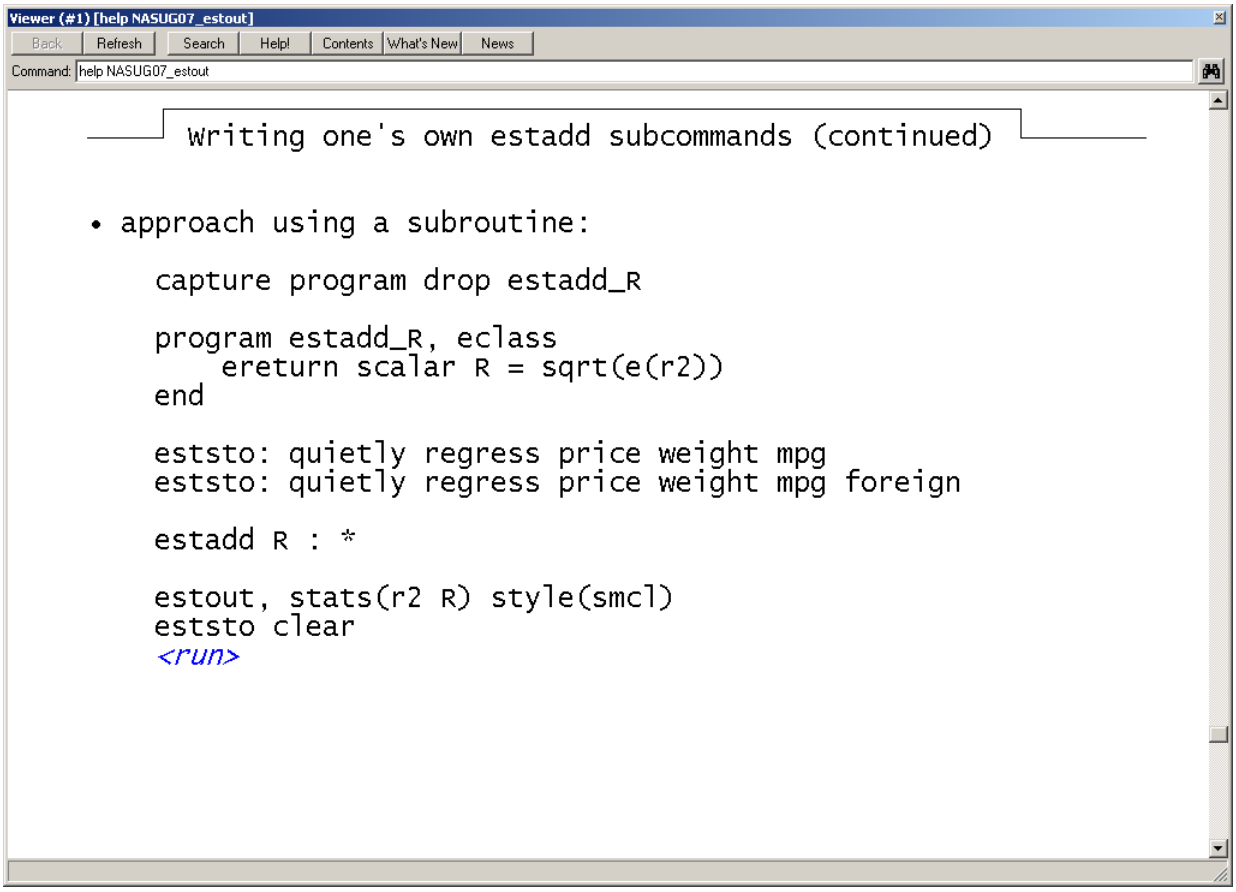
Command: help NASUG07_estout
Writing one's own estadd subcommands
Example 1: Report the multiple correlation (square root of the R-squared).
• manual approach:
eststo: quietly regress price weight mpg
estadd scalar R = sqrt(e(r2))
eststo: quietly regress price weight mpg foreign
estadd scalar R = sqrt(e(r2))
estout, stats(r2 R) style(smcl)
eststo clear
<run>


Viewer (#1) [help NASUG07_estout]
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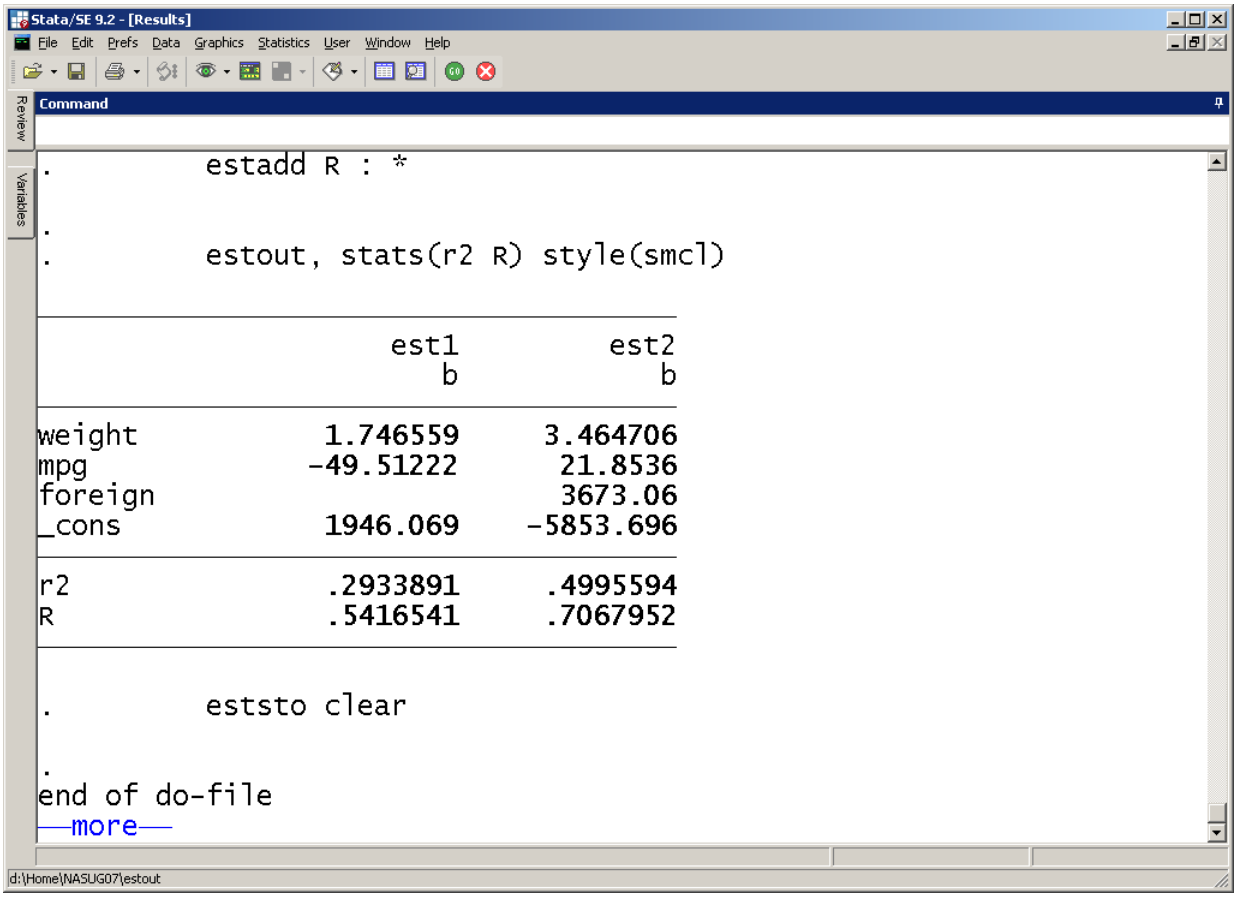
Command: help NASUG07_estout
Writing one's own estadd subcommands (continued)
• approach using a subroutine:
capture program drop estadd_R
program estadd_R, eclass
ereturn scalar R = sqrt(e(r2))
end
eststo: quietly regress price weight mpg
eststo: quietly regress price weight mpg foreign
estadd R : *
estout, stats(r2 R) style(smcl)
eststo clear
<run>


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Review
Variables
Command
. estadd R : *
. estout, stats(r2 R) style(smcl)
est1 est2
b b
weight 1.746559 3.464706
mpg -49.51222 21.8536
foreign 3673.06
_cons 1946.069 -5853.696
r2 .2933891 .4995594
R .5416541 .7067952
. eststo clear
end of do-file
--more--
d:\Home\NASUG07\estout

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

## Writing one's own estadd subcommands (continued)

Example 2: Report y-standardized coefficients.

```
capture program drop estadd_bstdy

program estadd_bstdy, eclass
    tempname bstdy
    matrix `bstdy' = e(b)
    quietly summarize `e(depvar)' if e(sample)
    matrix `bstdy' = `bstdy' / r(sd)
    ereturn matrix bstdy = `bstdy'
end

eststo: quietly regress price weight mpg
eststo: quietly regress price weight mpg foreign

estadd bstdy : *

estout, cells(b bstdy(par)) style(smcl)
eststo clear
<run>
```

Stata/SE 9.2 - [Results]

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Review | Variables | Command

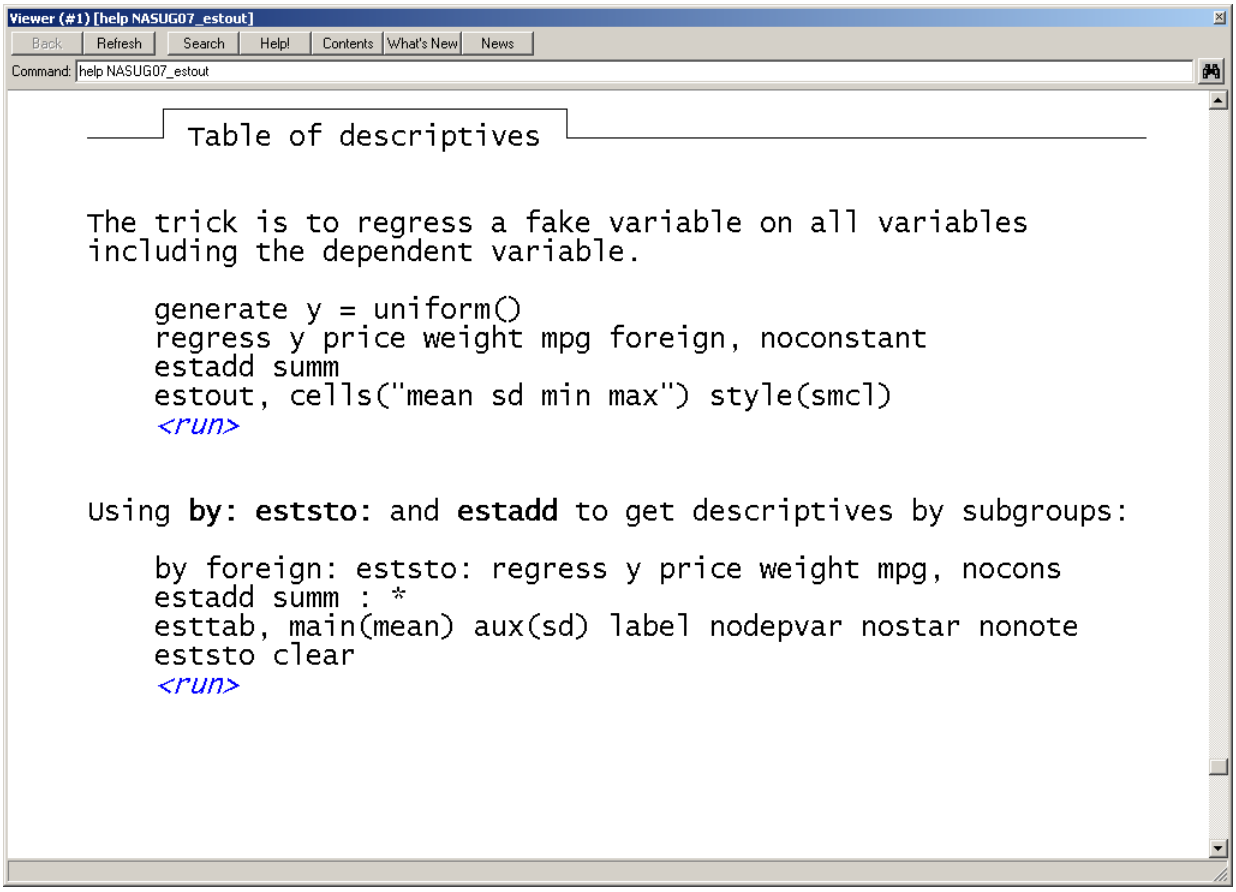
```
. estout, cells(b bstdy(par)) style(smcl)
```

| | est1<br>b/bstdy | est2<br>b/bstdy |
|---|---|---|
| weight | 1.746559 | 3.464706 |
| | (.0005922) | (.0011747) |
| mpg | -49.51222 | 21.8536 |
| | (-.0167867) | (.0074093) |
| foreign | | 3673.06 |
| | | (1.245318) |
| _cons | 1946.069 | -5853.696 |
| | (.659797) | (-1.984643) |

```
. eststo clear

.
end of do-file
--more--
```

d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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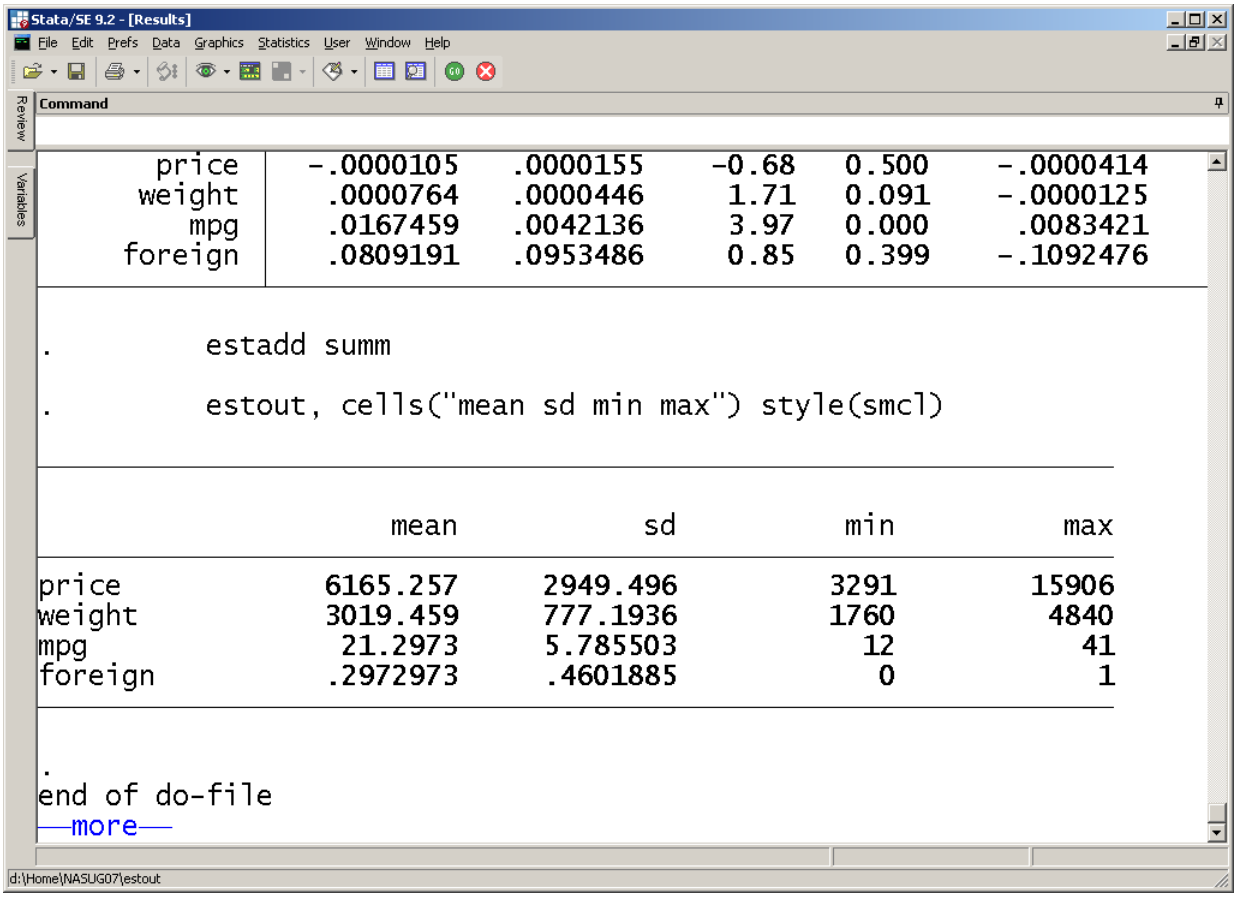
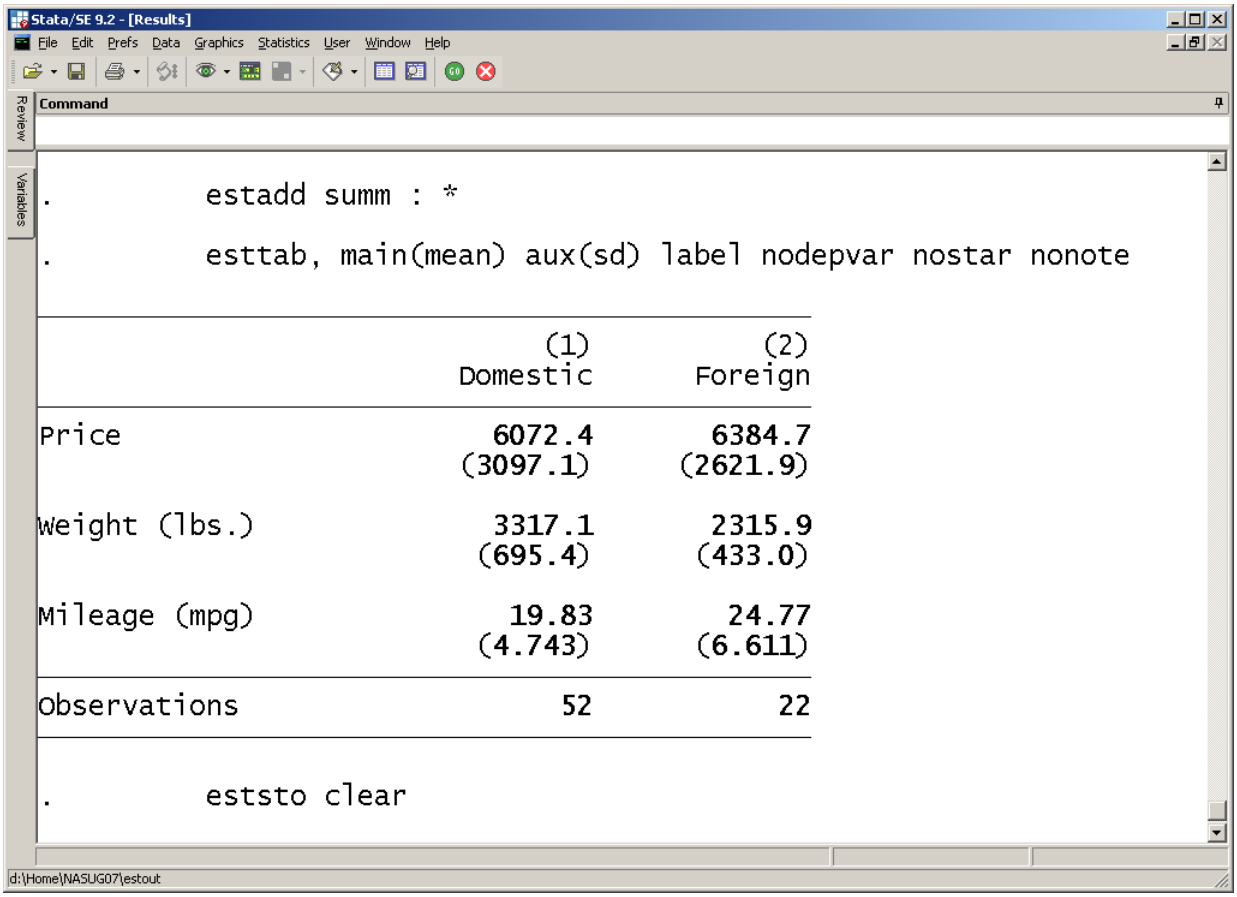
Command: help NASUG07_estout
Table of descriptives
The trick is to regress a fake variable on all variables
including the dependent variable.
generate y = uniform()
regress y price weight mpg foreign, noconstant
estadd summ
estout, cells("mean sd min max") style(smcl)
<run>
Using by: eststo: and estadd to get descriptives by subgroups:
by foreign: eststo: regress y price weight mpg, nocons
estadd summ : *
esttab, main(mean) aux(sd) label nodepvar nostar nonote
eststo clear
<run>


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
price -.0000105 .0000155 -0.68 0.500 -.0000414
weight .0000764 .0000446 1.71 0.091 -.0000125
mpg .0167459 .0042136 3.97 0.000 .0083421
foreign .0809191 .0953486 0.85 0.399 -.1092476
. estadd summ
. estout, cells("mean sd min max") style(smcl)
mean sd min max
price 6165.257 2949.496 3291 15906
weight 3019.459 777.1936 1760 4840
mpg 21.2973 5.785503 12 41
foreign .2972973 .4601885 0 1
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
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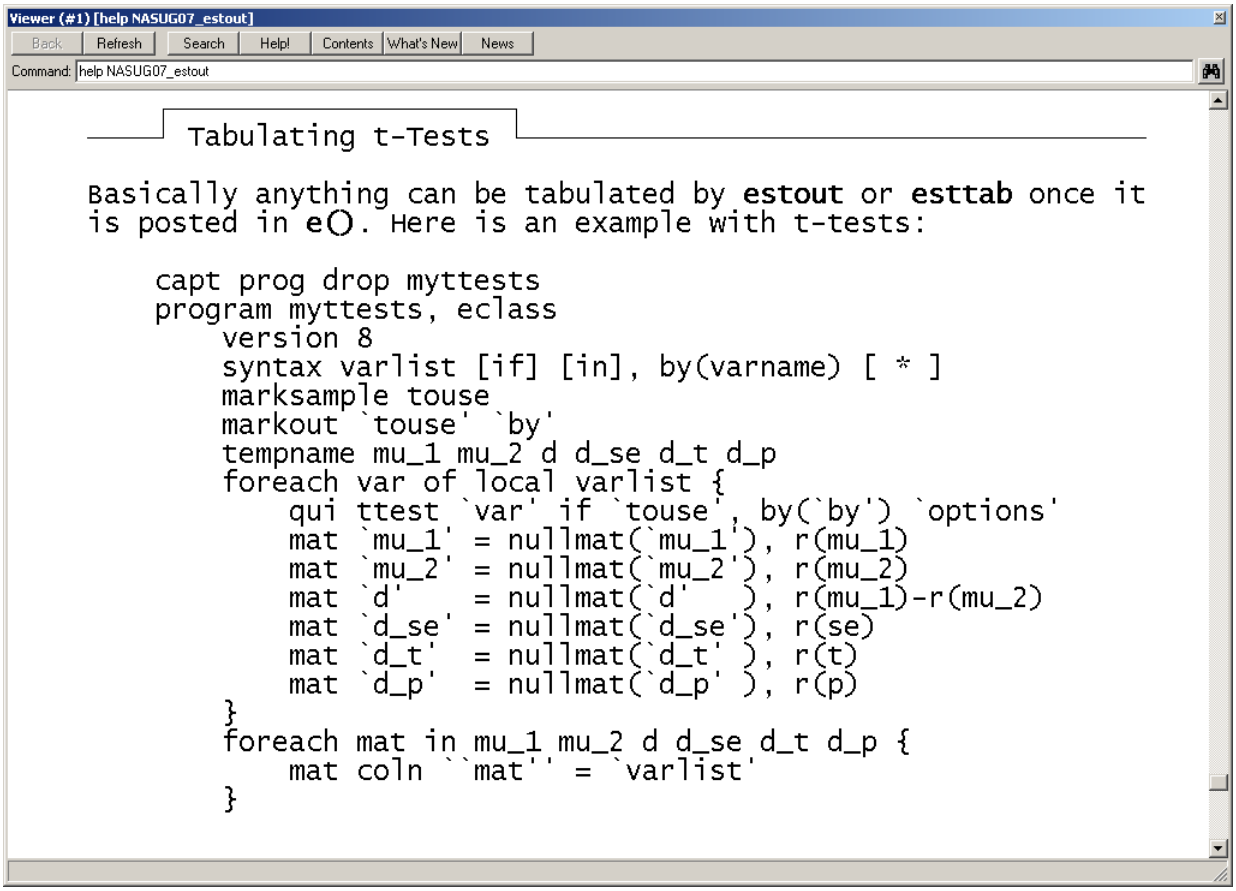
Command
Review
Variables
. estadd summ : *
. esttab, main(mean) aux(sd) label nodepvar nostar nonote
(1) Domestic (2) Foreign
Price 6072.4 (3097.1) 6384.7 (2621.9)
Weight (lbs.) 3317.1 (695.4) 2315.9 (433.0)
Mileage (mpg) 19.83 (4.743) 24.77 (6.611)
Observations 52 22
. eststo clear
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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Command: help NASUG07_estout
Tabulating t-Tests
Basically anything can be tabulated by estout or esttab once it is posted in e(). Here is an example with t-tests:
capt prog drop myttests
program myttests, eclass
version 8
syntax varlist [if] [in], by(varname) [ * ]
marksample touse
markout `touse' `by'
tempname mu_1 mu_2 d d_se d_t d_p
foreach var of local varlist {
qui ttest `var' if `touse', by(`by') `options'
mat `mu_1' = nullmat(`mu_1'), r(mu_1)
mat `mu_2' = nullmat(`mu_2'), r(mu_2)
mat `d' = nullmat(`d' ), r(mu_1)-r(mu_2)
mat `d_se' = nullmat(`d_se'), r(se)
mat `d_t' = nullmat(`d_t' ), r(t)
mat `d_p' = nullmat(`d_p' ), r(p)
}
foreach mat in mu_1 mu_2 d d_se d_t d_p {
mat coln ``mat'' = `varlist'
}

Viewer (#1) [help NASUG07_estout]

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Command: help NASUG07_estout

```
        tempname b V
        mat `b' = `mu_1'*0
        mat `V' = `b''*`b'
        eret post `b' `V'
        eret local cmd "myttests"
        foreach mat in mu_1 mu_2 d d_se d_t d_p {
            eret mat `mat' = ``mat''
        }
    end


    myttests price weight mpg, by(foreign)
    estout, style(smcl) ///
        cells("mu_1(fmt(a3)) mu_2 d(star pvalue(d_p))")
    <run>


(An alternative approach would be to save three sets of
estimates, one for each group, and one for the differences.)
```

Stata/SE 9.2 - [Results]

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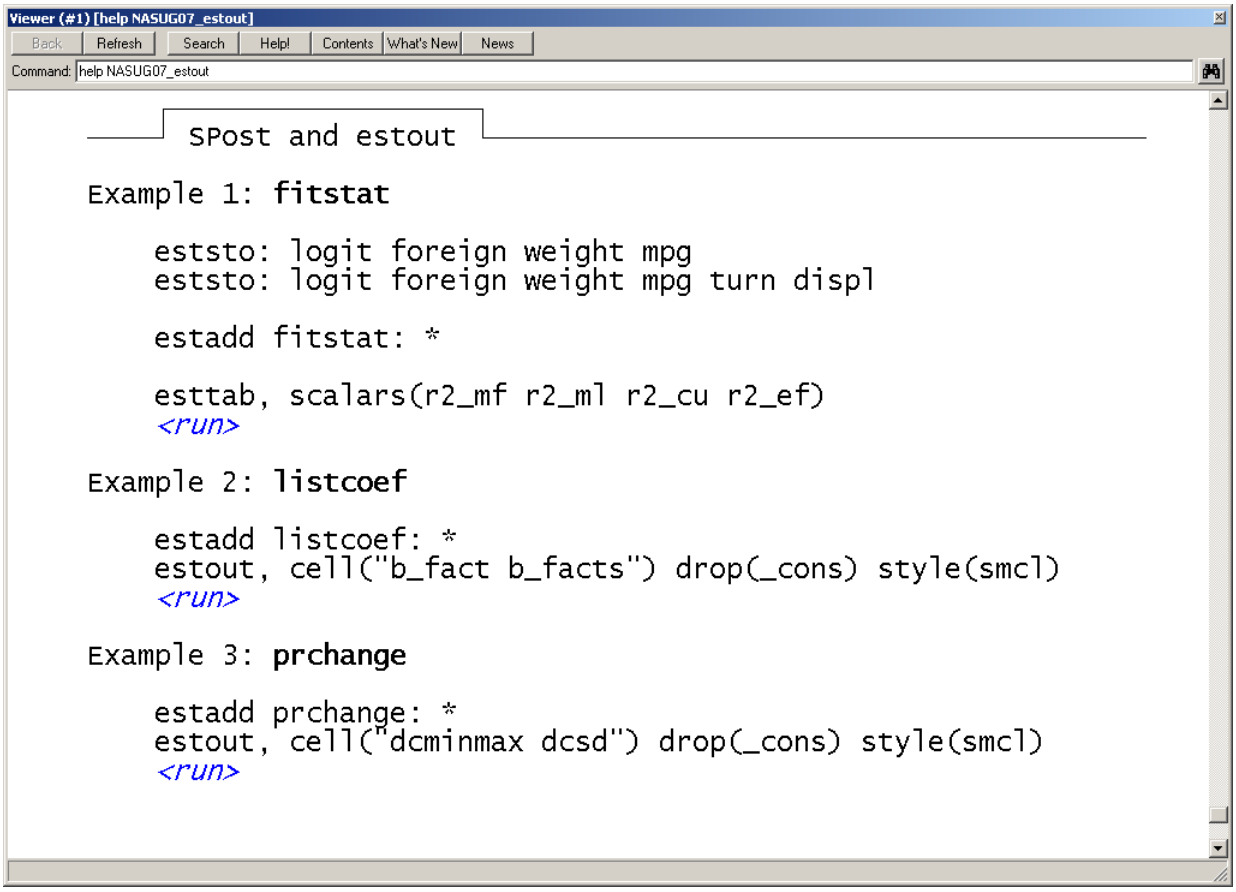
```
 24.                 eret mat `mat' = ``mat''
 25.             }
 26.         end

.
.
.         myttests price weight mpg, by(foreign)

.         estout, style(smcl) ///
>             cells("mu_1(fmt(a3)) mu_2 d(star pvalue(d_p))")

------------------------------------------------------------------------------
                        mu_1         mu_2           d
------------------------------------------------------------------------------
price                6072.4       6384.7       -312.3
weight               3317.1       2315.9      1001.2***
mpg                   19.83        24.77      -4.946***
------------------------------------------------------------------------------

.
end of do-file
--more--
```

d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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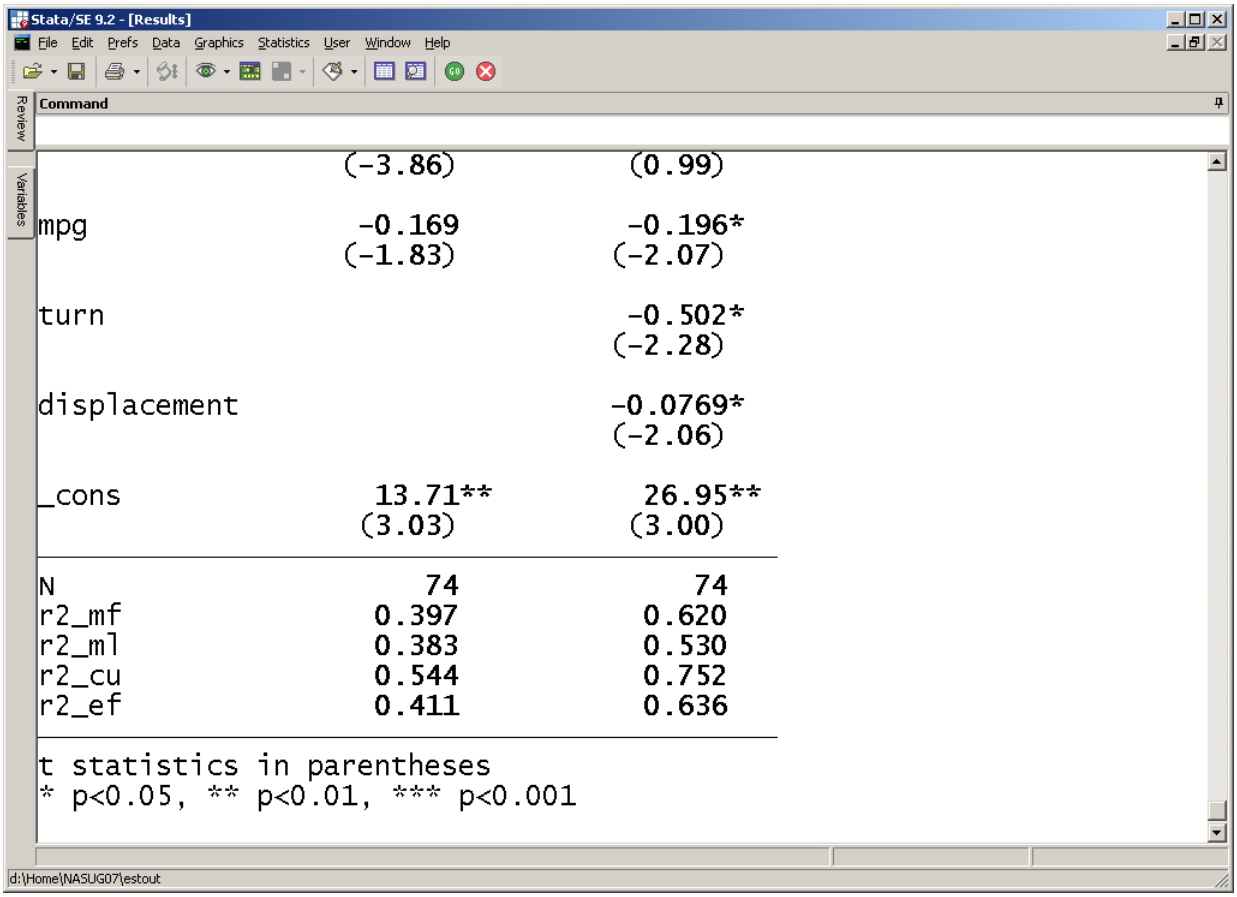
Command: help NASUG07_estout
SPost and estout
Example 1: fitstat
eststo: logit foreign weight mpg
eststo: logit foreign weight mpg turn displ
estadd fitstat: *
esttab, scalars(r2_mf r2_ml r2_cu r2_ef)
<run>
Example 2: listcoef
estadd listcoef: *
estout, cell("b_fact b_facts") drop(_cons) style(smcl)
<run>
Example 3: prchange
estadd prchange: *
estout, cell("dcminmax dcsd") drop(_cons) style(smcl)
<run>


Stata/SE 9.2 - [Results]
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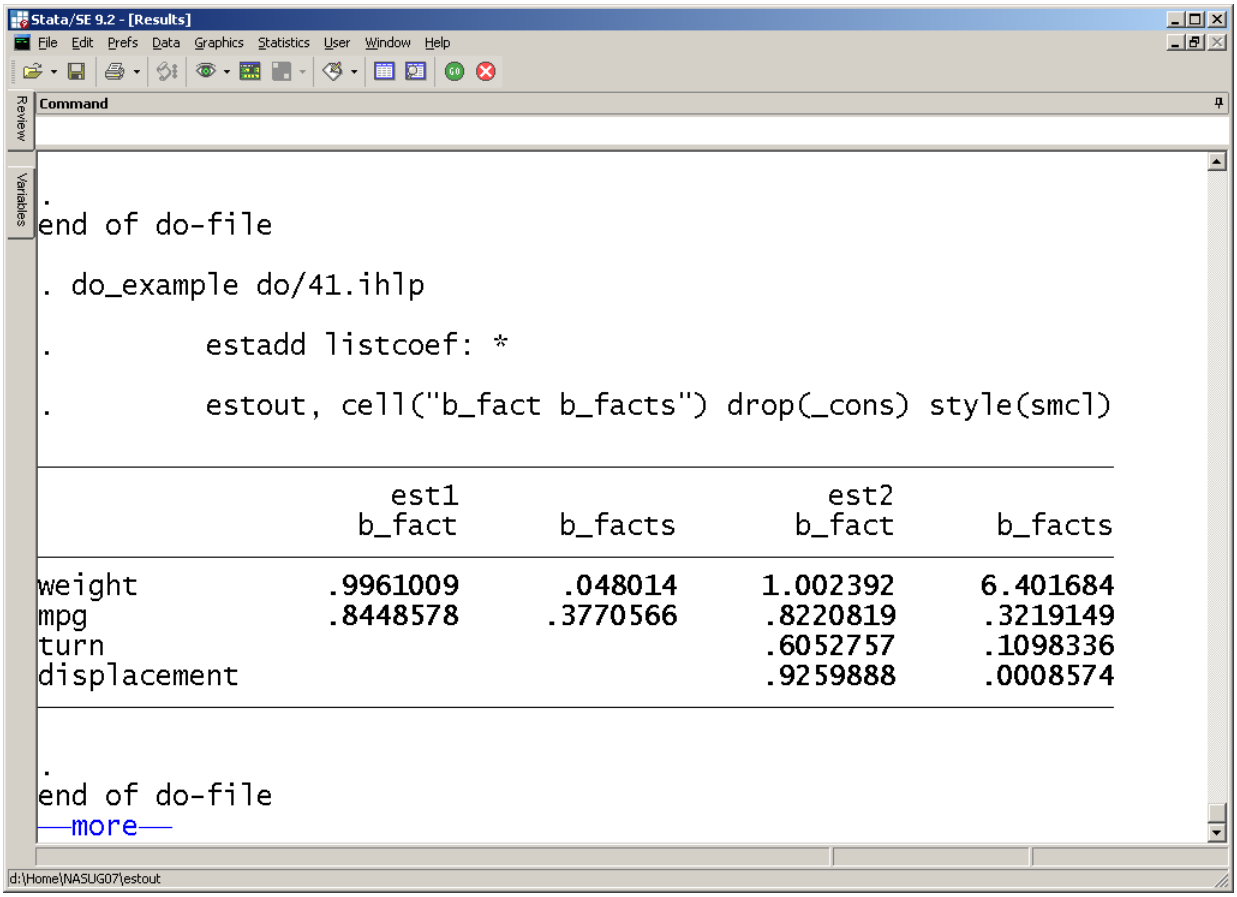
Review
Variables
Command
(-3.86) (0.99)
mpg -0.169 -0.196*
(-1.83) (-2.07)
turn -0.502*
(-2.28)
displacement -0.0769*
(-2.06)
_cons 13.71** 26.95**
(3.03) (3.00)
N 74 74
r2_mf 0.397 0.620
r2_ml 0.383 0.530
r2_cu 0.544 0.752
r2_ef 0.411 0.636
t statistics in parentheses
* p<0.05, ** p<0.01, *** p<0.001
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
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Command
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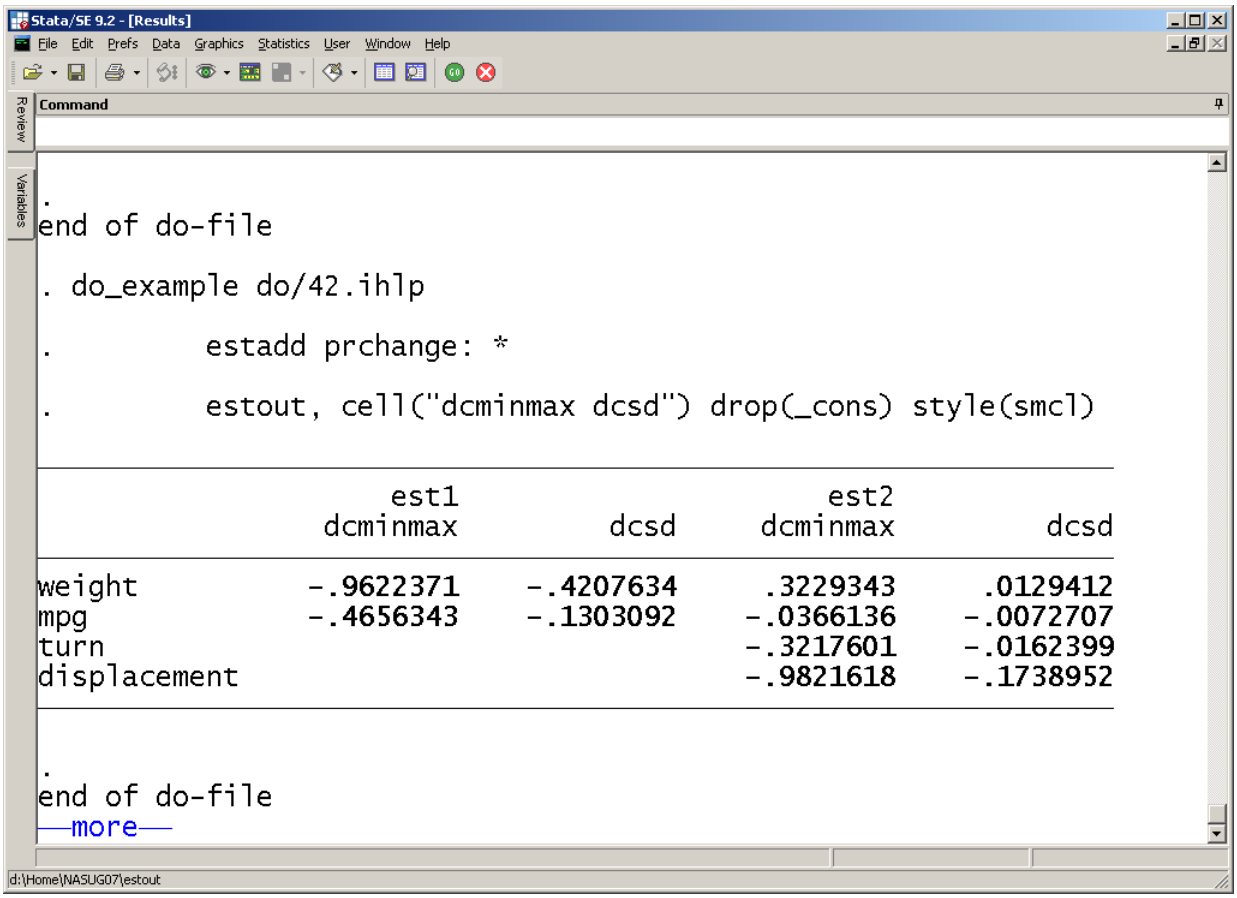
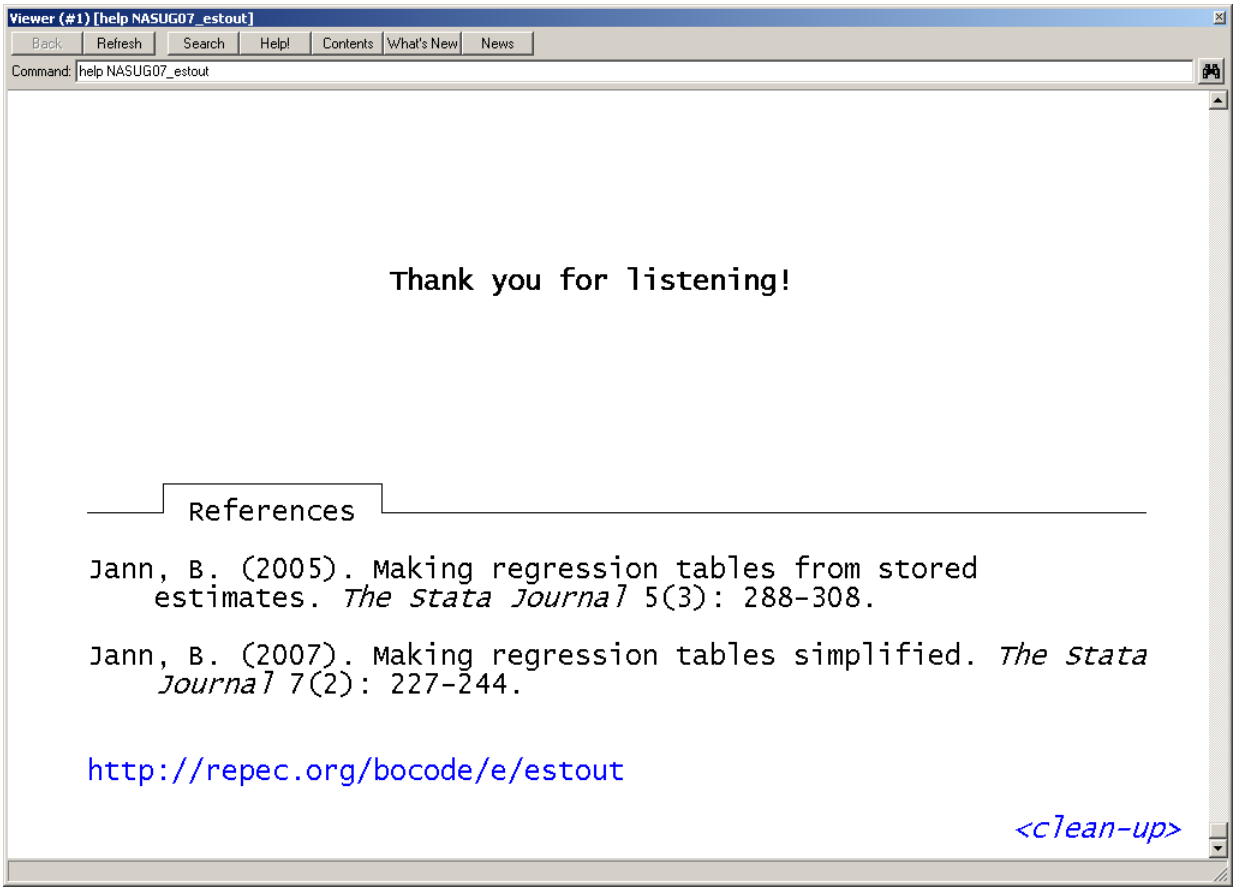
Variables
.
end of do-file
. do_example do/41.ihlp
. estadd listcoef: *
. estout, cell("b_fact b_facts") drop(_cons) style(smcl)
est1 est2
b_fact b_facts b_fact b_facts
weight .9961009 .048014 1.002392 6.401684
mpg .8448578 .3770566 .8220819 .3219149
turn .6052757 .1098336
displacement .9259888 .0008574
.
end of do-file
--more--
d:\Home\NASUG07\estout


Stata/SE 9.2 - [Results]
File Edit Prefs Data Graphics Statistics User Window Help
Command
Review
Variables
.
end of do-file
. do_example do/42.ihlp
. estadd prchange: *
. estout, cell("dcminmax dcsd") drop(_cons) style(smcl)
est1 est2
dcminmax dcsd dcminmax dcsd
weight -.9622371 -.4207634 .3229343 .0129412
mpg -.4656343 -.1303092 -.0366136 -.0072707
turn -.3217601 -.0162399
displacement -.9821618 -.1738952
.
end of do-file
--more--
d:\Home\NASUG07\estout


Viewer (#1) [help NASUG07_estout]
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Thank you for listening!
References
Jann, B. (2005). Making regression tables from stored estimates. The Stata Journal 5(3): 288-308.
Jann, B. (2007). Making regression tables simplified. The Stata Journal 7(2): 227-244.
http://repec.org/bocode/e/estout
<clean-up>